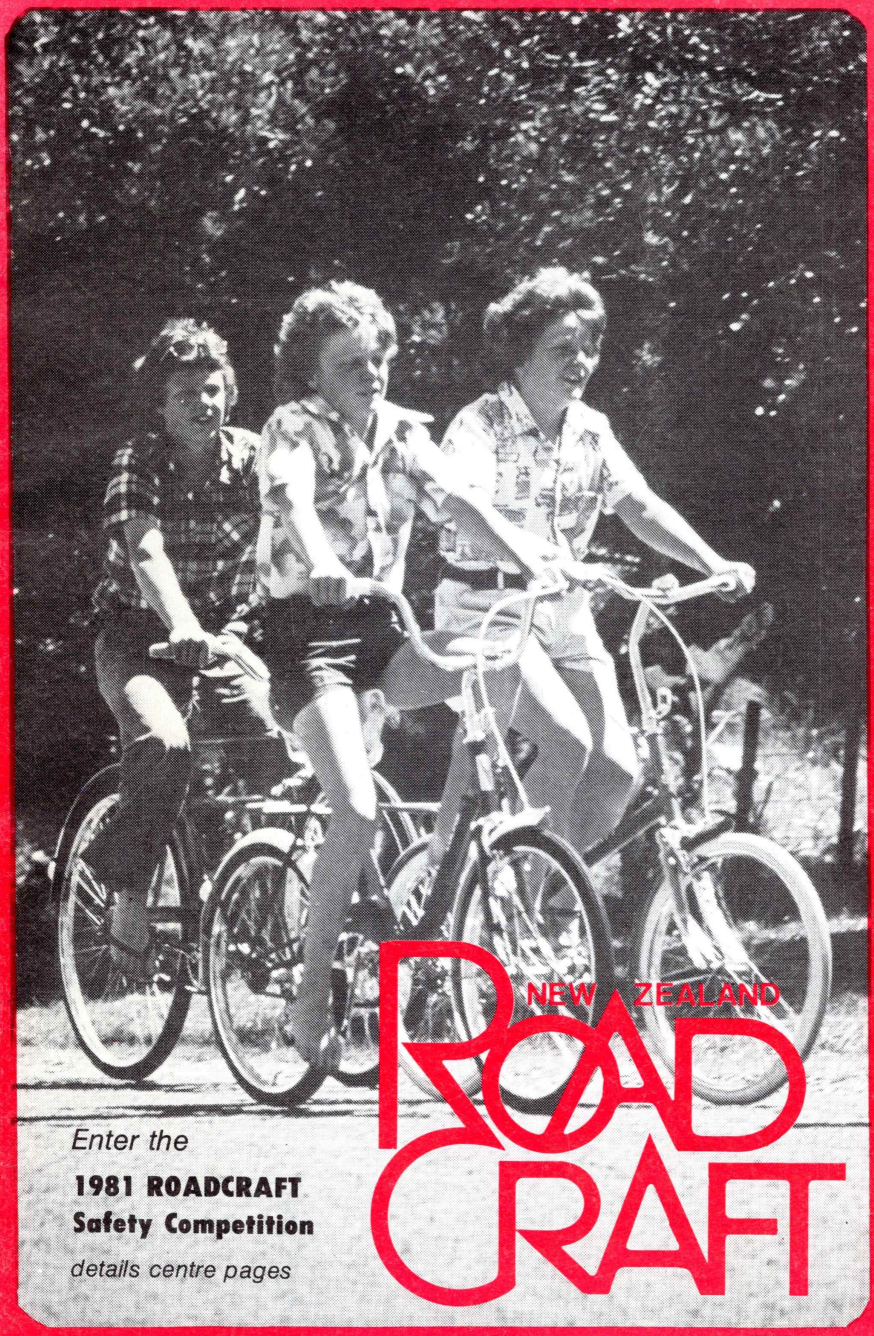
CANTERBURY EDITION

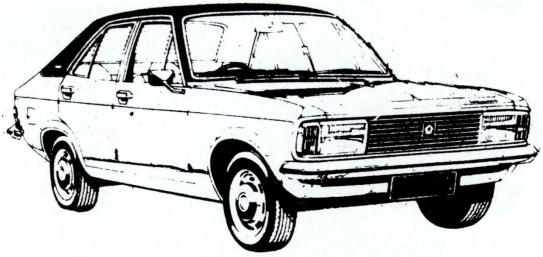
VOLUME SIXTEEN — 1981
Established 1965



CITY SOUTH AUTOWRECKERS

33 WORDSWORTH STREET, SYDENHAM

Specialists in Hillmans.



Cash buyers of all makes.

We have most spares for most models.

You nose to tail them,
we retail them.

PHONE 797-170

AFTER HOURS 427-538, 35-956

NEW ZEALAND ROAD CRAFT

PUBLISHED IN THE INTERESTS OF ROAD SAFETY BY

PERCIVAL PUBLISHING CO. (N.Z.) LTD

BRANCHES THROUGHOUT NEW ZEALAND

WITH THE ASSISTANCE AND APPROVAL OF

N.Z. MINISTRY OF TRANSPORT

FOR DISTRIBUTION THROUGH

DISTRICT ROAD SAFETY COMMITTEES

FOREWORD FROM THE MINISTER OF TRANSPORT, RT. HON. MR COLIN McLACHLAN

PRINTED BY MAXWELL PRINTING CO. (N.Z.) LTD, AUCKLAND

Copyright © by Percival Publishing Co. (NZ) Ltd, P.O. Box 52023, Auckland, except where acknowledged to another source.

Cover: Photo supplied by courtesy of Feltex Rubber.

AABAAS BROS LTD

TRAMPOLINES

Completely Galvanized, Polypropoline Mat, Collapsible

BUY DIRECT FROM THE FACTORY AND SAVE OVER $100

We arrange delivery anywhere in New Zealand
Aabaas Bros. sell more Trampolines than any one else because they have a BETTER TRAMP, a BETTER PRICE and a BETTER RANGE, and you benefit.

Junior, 1.8 m x 2.4 m, $238
Family, 2.3 m x 3.4 m, $399
Club, 2.4 m x 4.0 m, $499
We reply to all correspondence and accept mail orders.

AABAAS BROS LTD
P.O. BOX 16-026, CHRISTCHURCH
740 HALSWELL JUNCTION ROAD, HORNBY, CHRISTCHURCH
PHONE: 497-859 or 497-563
Money back guaranteed on our trampolines if not completely satisfied

OPEN 24 HOURS

GOBBLE & GO DINER

N.Z.'s FIRST

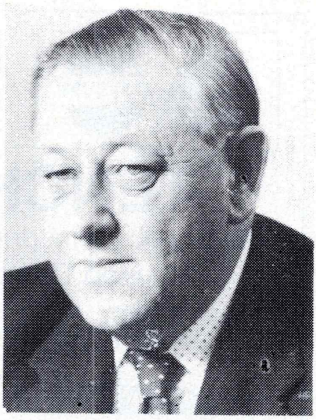
For ★ Breakfasts ★ Lunches ★ Dinners ★ Suppers and ★ Takeaways

200 FERRY ROAD, CHRISTCHURCH

(off the corner Moorhouse Avenue)

PHONE: 792-640

Message from the Minister of Transport



It is an horrific thought to discuss the road toll with bland emotionless statements such as "Well, it's up again this year". However, as there is little better guide at this stage one must make best use of the available statistics in an attempt, at least, to put some sense into their meaning.

The statement above is quite correct. 1980 saw the first increase in the road toll for three years. I study these figures and wonder why this should happen. I wonder why there should be this appalling loss of life. And appalling it is: more men, women and children have died on our roads than soldiers in all our wars.

When I wonder why all this happened I come to the realisation of one simple fact. That, despite the fact that accidents do happen and that sometimes vehicles are defective through nobody's fault, there is only one other person to blame: the driver. It is time to wake up and look at our ROADCRAFT. Time to take a long, hard look at the way we drive and the care we take of our vehicles. It is no use going through life under the two, often fatal, misconceptions: "It's going to be his fault" and "It'll never happen to me." That is not enough, one has to awaken as if from a long dark sleep and see that your future, the future of other drivers, the future of your children and of his children is simply a matter of road craft. Take care.

Colin McLachlan

Minister of Transport

DATSUN

TENCH BROS LTD

Invite you to inspect the largest range of new and used Datsuns in the South Island.

DATSUN SUNNY
Coupe, Sedan or S/wagon

DATSUN BLUEBIRD
Sedan & S/wagon

TENCH BROS LTD

Cnr MANCHESTER STREET & CAMBRIDGE TERRACE,
CHRISTCHURCH
PHONE: 790-631

TAYLORS

SANITONE

CERTIFIED MASTER DRYCLEANER

23 Conveniently Located Depots

Phone for the nearest address.

PHONE: 488-529 CHRISTCHURCH

See main listing for depot telephone numbers.

Postal service available to rural areas. For information write to:

P.O. BOX 942, CHRISTCHURCH

A VOTE OF THANKS

The New Zealand Road Safety Committees would like to express a vote of thanks to Mr Harry Fantham who resigned as secretary in September of last year.

Harry Fantham has had over 17 years service with the Ministry of Transport, serving initially as a Traffic Officer and later in the clerical division of the Ministry. His interest in Road Safety started when, as a Traffic Officer he was a founding member of the Greymouth Road Safety Committee in the 1950s.

Retired from the Ministry of Transport in December 1978, Harry was able, for a time, to devote all his energy into the Road Safety cause.

Illness, and business interests, contributed to Harry deciding to limit his Road Safety activities to being secretary of the Christchurch metropolitan committee.

The executive council will miss Harry's innovative ideas, enthusiasm and 'know how' which along with a genuine sense of humour made Harry a popular and capable member.

Jane Shelling takes Harry's place as Secretary of the New Zealand Road Safety Committee.

Jane, aged 23, a married woman, has been with the Ministry of Transport since August 1974. Her interest in Road Safety was brought about partly by her position in the Driver Licence Section and partly due to her association with Mr Fantham who is presently helping her in settling in to her new job as secretary.

★ When it comes to light fittings to enhance your home, MED have a wide selection.
★ When it comes to washing machines, MED have the choicest selection.
★ When it comes to ranges or refrigerators, MED have a huge selection.
★ When it comes to hire purchase terms, MED's are the easiest of them all.

MED

CNR ARMAGH & MANCHESTER STS, CHRISTCHURCH

PHONE: 790-900

GET THE BEST!

Genuine Hand-laid Colour Impregnated Fibreglass

SPEEDWAY SAFETY HELMET

We specialise in BMX, Ten Speed & Comet full face helmets. Available at all retail cycle outlets. As worn by Christchurch traffic officers.

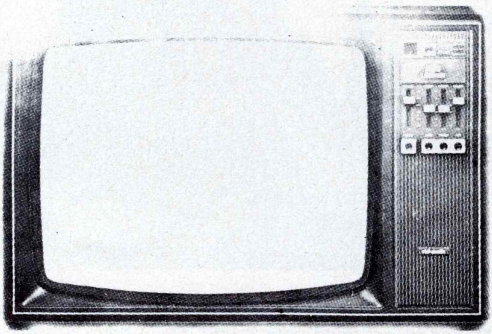
YOUR SAFETY IS OUR BUSINESS

These conform to and exceed N.Z. Safety Standard No. 1884

REINFORCED GLASS PRODUCTS

CHRISTCHURCH

Sponsored in the interest of Road Safety



FOR **YOUR** COLOUR TELEVISION SET

Phone 7182

STEWART and HOLLAND LIMITED

230 BURNETT STREET, ASHBURTON

PHONE: 7182

The Association of New Zealand Road Safety Committees

Our association is made up of approximately forty district committees, who are all concerned with road safety in their immediate areas.

Much of the work is not exciting or headline making, but is made up mundane things which must be investigated in order to keep up a standard of road safety.

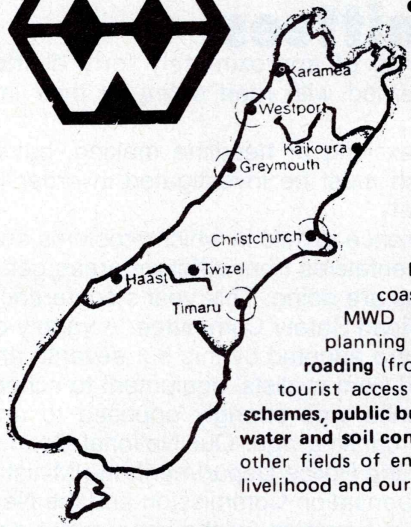
Each year an annual conference is held in which problems and ideas are discussed and representatives from different areas get a chance to learn what other areas are doing. This year's conference was hosted by the Lower Hutt Road Safety Committee. A variety of remits and recommendations were adopted by this our seventh annual conference and they varied from cyclists' equipment to school children's patrols. The conference was strongly opposed to any proposal to lower the minimum drinking age. Our National Council made the recommendation that the Police Department, the Ministry of Transport, the Accident Compensation Commission and the New Zealand Standards Institute make provision for the impounding and inspection of all safety helmets found to be affected as the result of a motor vehicle accident. This procedure has recently been implemented in Christchurch and it will be interesting to see what results can be gained.

Local committees generally concern themselves with parking problems (where road safety is involved), accident causing intersections, poor sign posting of streets, school patrols, child safety and other road safety problems that are brought to their attention. Committees work closely with their local Ministry of Transport and Council offices.

The committees are made up of representatives from various organisations (e.g. Councils, Ministry of Transport, Education Department, Institute of New Zealand Driving Schools, Transport Boards, Insurance Council, Autocycle Club, etc.) and private members.

What can you do about that nagging road problem that confronts you each morning as you set off to work? You either do something constructive or you continue to put up with the problem until a serious accident takes place. Right now you can join your local Road Safety Committee, subscribe to the Road Safety Magazine (at $1.00 per annum it's a cheap donation to something worthwhile) or at the very least put pen to paper, outline the problem and let your local Road Safety Committee know about it.

Ministry of Works and Development Christchurch



Extending from Kaikoura to the Waitaki on the east coast and from Karamea to Jackson Bay on the west coast the Christchurch district of the MWD advises on design, construction and planning of all Government works such as **roading** (from motorways and state highways to tourist access roads), **bridging, power, irrigation schemes, public buildings, town and country planning, water and soil conservation and technology,** and many other fields of endeavour affecting our development, livelihood and our future existence.

MOTOR CORPORATION CITY LTD

FOR YOUR NEW VEHICLES

MINI — ALLEGRO — MORRIS 1700

HONDA CIVIC — PRINCESS

49 WORCESTER STREET THROUGH TO 58 GLOUCESTER STREET

Walk through our showroom and test drive today.

PHONE 793-120 LMVD

Publisher's Acknowledgement

Percival Publishing Co. (N.Z.) Ltd are pleased to issue the 16th volume of New Zealand Road Craft.

We would like to extend a special welcome to Mrs Jane Shelling as Secretary of the Association of New Zealand Road Safety Committees. We wish her well in her new job and look forward to the continued co-operation between our two organisations in the future.

We also wish to express our sincere appreciation of Mr Harry Fantham's untiring efforts with contributions, advice and helpful commments, over the period of our association.

To the nine area Committees we extend a vote of thanks for their efforts in selecting our 1980 Competition winners and presenting the prizes. Some areas, we understand, received considerable publicity of the competition's presentations of prizes.

Our editiorial has been updated with the kind assistance of the Ministry of Transport, through the office of Mr Errol Miller and Mr Lee Quayle, the editor of the Ministry of Transport's journal Road Safety. We are very grateful for this help and for the Minister's foreword.

Finally we thank our advertisers for their continued support and ask readers to kindly choose the goods and services from advertisers in this booklet, without whose help this publication would not appear.

Support Your Local Road Safety Committee

Complete the form below and return to your nearest Road Safety Committee as shown in the list on page 15

The Secretary ..... Road Safety

I am interested in supporting your organisation in its efforts to improve safety on our highways. Would you please send me a free copy of the magazine 'N.Z. ROAD SAFETY' and details of how I may become a member of your road safety organisation.

(Name) .....

(Please print)

(Address) .....

.....

ARE YOU INTERESTED

in SAFETY; increasing FUEL ECONOMY and PERFORMANCE; increasing TYRE LIFE; improving HANDLING and COMFORT? Well look no further —

Our 'H.P.A.' Opto-Electronic Wheel Aligner will instantly diagnose any front suspension faults. This machine, along with our electronic wheel balancing service, enables us to make your car run as efficiently as it should. At C. J. Fitzgibbon and Sons we can do the full wheel alignment to your car and can even adjust the so-called "non-adjustable" types of suspensions found on certain cars like Cortinas, Hunters and most Japanese cars.

There's no need to hurry — your friendly Europa Station is now open on SATURDAY and SUNDAY from 9 to 5 as well as LATE NIGHT THURSDAY until 8.

Yes — we are now open for your convenience 7 days a week with Europa petrol, lubricants and associated motoring needs including Vane Tuning and Workshop Repairs.

C. J. FITZGIBBON & SONS

PHONE: 598-387

409 HAREWOOD ROAD, CHRISTCHURCH

For all

JAPANESE MOTORCYCLE REPAIRS

from the popular commuter to the 'mean machine'

- **Tune up and overhaul service**
- **Free pick-up service in city limits**
- **All repairs guaranteed**
- **Over 15 years experience in repairs of Honda, Suzuki, Yamaha, and Kawasaki**

REG LILLY MOTORCYCLES

49 WARRINGTON STREET, CHRISTCHURCH

(behind Warrington Service Station)

PHONE: 851-381

IMPORTANT NOTICE TO ADVERTISERS AND READERS

New Zealand Roadcraft is the only commercially produced Road Safety journal approved by The Association of New Zealand Road Safety Committees and is assisted in editorial matters by the Ministry of Transport. New Zealand Roadcraft is published by Percival Publishing Co. (NZ) Ltd, who make a direct financial contribution to the Road Safety Committees funds and in addition is the main sponsor to Roadcraft's annual competition.

SANITARIUM

The Big Name In Health Foods For Over 80 Years

Invite you to select your requirements from your nearest Sanitarium shop

★ *DRIED FRUIT* ★ *HERBS & SPICES* ★ *LEGUMES* ★ *GRAINS* ★ *MEALS & FLOURS* ★ *NUTS* ★ *DIABETIC FOODS* ★ *FRUIT JUICES* ★ *CIDER VINEGAR* ★ *HONEY* ★ *VITAMINS* ★ *FOOD SUPPLEMENTS*

CHRISTCHURCH

700 Colombo Street — 764 Colombo Street

125 Riccarton Road

HOTEL ASHBURTON

NEW ZEALAND'S CONFERENCE AND SKI CENTRE

LUXURY HOTEL AND MOTEL COMPLEX 10

Situated in a thriving country town in the centre of the Canterbury Plains between the cities of Christchurch and Timaru. Our Hotel is a spacious one with modern facilities and conveniences set in 12 acres of lawns and shrubs with a 6 hole golf course around the perimeter. We have a heated swimming pool, sauna, etc., set in the grassed central courtyard of the Motel Units which have private patios. Full bar and room services available. CONFERENCES are our forte and we have numerous conference and meeting rooms, with all necessary equipment available.

SKIING — Six skifields within easy striking distance, virtually guaranteed skiing every day our long season, including the famous Mount Hutt field.

FISHING — Our famous salmon rivers and trout lakes are full of big fish waiting to be caught by you.

HUNTING — Close by you can photograph or shoot that big Stag, Chamois or Boar.

TRAMPING — If you like to walk in unsurpassed scenic beauty it is all here close by.

JET BOATING — Up our rivers through beautiful gorges and mountain scenery.

GOLF — Three 18-hole courses of very high standard and each one very different plus all other sporting facilities available in town. If you wish to explore on your own, rental cars are available.

COME, STAY WITH US, AT THE HOTEL ASHBURTON

PHONE 83-059

Elfin self-rising flour guarantees better baking . . .

Elfin self-rising flour is specially milled to give a lighter, finer texture to all baking. Elfin's special rising agents start rising during mixing and continue right through the cooking. This is why Elfin guarantees better baking every time!

D. H. BROWN & SON LIMITED
CHRISTCHURCH

ASSN. N.Z. ROAD SAFETY COMMITTEES

AREA REPRESENTATIVES

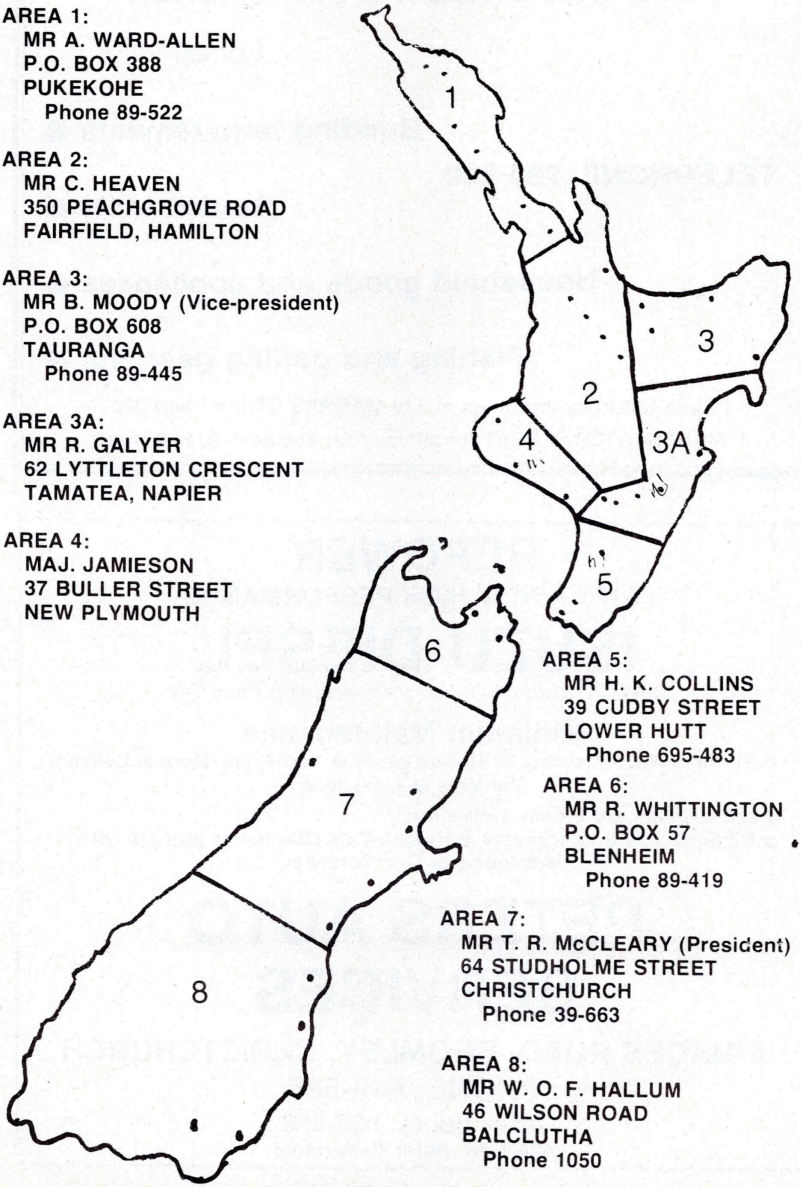
AREA 1:
MR A. WARD-ALLEN
P.O. BOX 388
PUKEKOHE
Phone 89-522

AREA 2:
MR C. HEAVEN
350 PEACHGROVE ROAD
FAIRFIELD, HAMILTON

AREA 3:
MR B. MOODY (Vice-president)
P.O. BOX 608
TAURANGA
Phone 89-445

AREA 3A:
MR R. GALYER
62 LYTTLETON CRESCENT
TAMATEA, NAPIER

AREA 4:
MAJ. JAMIESON
37 BULLER STREET
NEW PLYMOUTH



AREA 5:
MR H. K. COLLINS
39 CUDBY STREET
LOWER HUTT
Phone 695-483

AREA 6:
MR R. WHITTINGTON
P.O. BOX 57
BLENHEIM
Phone 89-419

AREA 7:
MR T. R. McCLEARY (President)
64 STUDHOLME STREET
CHRISTCHURCH
Phone 39-663

AREA 8:
MR W. O. F. HALLUM
46 WILSON ROAD
BALCLUTHA
Phone 1050

ASHBY BERGH'S

322 MANCHESTER STREET
and HIGH STREET, CHRISTCHURCH

For all your . . .

Building requirements ●

TELEPHONE 790-520

Garden tools ●

Household goods and appliances ●

Fishing and golfing gear, etc ●

Open Saturday mornings at 379 MADRAS STREET and 322 MANCHESTER STREET for all your handyman requirements

REPOWER

WITH A NEW HIGH PERFORMANCE

ISUZU DIESEL

SAVE 61 percent on fuel costs including Road Tax

Minimum Maintenance

● Farmers ● Contractors ● Stock Agents ● Taxi-Proprietors ● Delivery Vehicles ● Travellers

These engines are ideally suited for:

● CF Bedfords ● Landrovers ● Holden Cars (Manual or Auto) ● Utes ● Wagons or One Tonners

PETERS AUTO SERVICES

6 MACES ROAD, BROMLEY, CHRISTCHURCH

PHONE: 849-585

After Hours: 882-562

ASK FOR: Peter Cattermole

Road Safety Committee Addresses

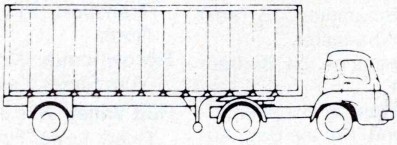
Bay of Islands: Mr L. Wright, 5 Purdy Street, Kaikohe.
Northern Wairoa: Recess.
Whangarei: Mr R. Scrampton, 15 Titoki Place, Kingston, Whangarei.
Rodney: Mr G. Cummings, 54 Bertram Street, Warkworth.
Auckland Metropolitan: Mr H. Laban, c/- Ministry of Transport, Private Bag, Auckland.
Franklin: Mrs B. Swears, P.O. Box 55, Pokeno.
Paeroa: Mr J. Kennedy, 20 Kennedy Street, Paeroa.
Western Bay of Plenty: Mr I. Walker, P.O. Box 379, Tauranga.
Whakatane: Mrs J. Cunnliffe, P.O. Box 238, Whakatane.
Greater Hamilton: Mrs Armstrong, 91 Fairview Street, Hamilton.
Matamata: Mr R. Gavin, 42 Burwood Road, Matamata.
Putaruru: Mr D. McLean, R.D. 2, Putaruru.
Tokoroa: Mrs C. Fountain, P.O. Box 245, Tokoroa.
Rotorua: Ms S. Bow, 563 Te Ngae Road, Rotorua.
Gisborne: Mrs J. Davis, 4 Stanford Crescent, Gisborne.
Hawkes Bay: Mr Baikie, c/- P.O. Box 1066, Napier.
Central Hawkes Bay: Mr T. Plunkett, P.O. Box 284, Waipukurau.
Dannevirke: Mrs C. Fryer, 13 Burns Street, Dannevirke.
Wanganui: Mrs B. Mauvan, 100 Surrey Road, Wanganui.
Rangitikei: Secretary, c/- 72 Mill Street, Marton.
Manawatu: Secretary, c/- Ministry of Transport, Private Bag, Palmerston North.
Horowhenua: Mr M. Pownall, c/- 16A York Street, Levin.
Hutt Valley: Mrs J. Campbell, 26 Wainui Road, Lower Hutt.
Wellington: J. McKee, 37 Edinburgh Terrace, Wellington.
Marlborough: Secretary, c/- P.O. Box 57, Blenheim.
Nelson: Mr A. Kelly, c/- Ministry of Works. Private Bag, Nelson.
North Canterbury: Mrs P. Grey, P.O. Box 255, Rangiora.
Christchurch: Secretary, c/- Ministry of Transport, Private Bag, Christchurch.
Ashburton: Mrs M. Sheehan, P.O. Box 151, Ashburton.
South Canterbury: Mrs J. Gilbert, c/- Ministry of Transport, P.O. Box 255, Timaru.
Waimate: Miss G. Kennard, 49 Edinburgh Street, Waimate.
Westland: Secretary, c/- Ministry of Transport, Greymouth.
North Otago: Mr W. Naylor, 39 Tamar Street, Oamaru.
Dunedin: In recess.
South Otago: Mrs M. Olliver, 22 Branksea Street, Kaitangata.
Eastern Southland: Mr B. Miller, 28 Pomona Street, Gore.
Southland: Mr I. Larsen, c/- Ministry of Transport, Invercargill.

Sponsored in the interest of Road Safety by

Carriers and Cartage Contractors

BURNETTS MOTORS LTD

EAST STREET, ASHBURTON
P.O. Box 104
TELEPHONE 4079



Cartage and General Contractors
All Types of Transport Work Undertaken
to Any Part of the South Island

NEW ZEALAND'S LEADING BRUSHMAKER

In New Zealand Hamiltons are the one firm that specialises solely in the manufacturer of painting brushware and rollers.
Over 169 years of international experience and technology goes into the manufacture of Hamilton's extensive range of brushes. We go to great lengths to ensure all Hamilton brushes are made to the highest possible standards in each price range. This reputation for quality products at realistic prices has already earned significant export markets in the Pacific Basin.

Professional and home handyman alike rely on the quality of Hamilton brushes for a better finish.
The world's leading brushmakers

HAMILTON BRUSHES (NZ) LTD, P.O. Box 4083, 180-184, Durham Street, Christchurch. Telephone 61-606.

Cables 'Brushware' Christchurch.

Message from the No. 7 Area Representative to the New Zealand Road Safety Association

In last year's issue of Road Craft I suggested that when the death and injury toll was brought home to the road users they would realise the necessity of taking more care. How wrong I was.

This year so far the number of killed, crippled and injured is an all time record with more to come. Maybe you or one of your loved ones. Think about it. Talk about it. Until we can change the attitude of mind to using the motor vehicle on the road this situation can only get worse.

The intention of the authorities is for stiffer testing of driving and education. Schools will possibly include more road safety in their curriculum. Learn to read and write, and stay alive on the road.

We, the Road Safety Committees, ask you to send suggestions on how to improve the present serious situation. In addition if you can suggest improvements or changes to roads, corners, signs, obstructions in and about your area, write to or ring your area representative for immediate investigation. This is one of the places where your committee can do useful work. We welcome it! Tell us about stiffer penalties that can be made to work, and hurt? Have you better solutions? Why is it that more and more are being discourteous and ignorant when on the roads? Is it the Government? There must be some reason! Driving can be enjoyable.

Try saying "Have a pleasant day" to yourself and others. Pain and suffering from an accident can only mean unhappiness to many.

The Association of N.Z. Road Safety Committees is deeply appreciative of the generous and financial grant from the Percival Publishing Company, without which the activities of the Association would be severely curtailed. In turn, the advertisers of this booklet should, wherever possible, be supported by road users. The advertisers, publishers and distributors have done their part. Read this book, make sure your friends get one. Become a Road Safety Association member.

MR T. R. McCLEARY (President)

CHEVIOT FAST FOODS

ROB AND LYNN BOSWELL

- Fish and Chips
- Hamburgers
- Takeaways

OPEN 7 DAYS
11 a.m. — 7 p.m. Monday to Thursday
Friday and Saturday 11 a.m. — 10.30 p.m.
Sunday 11 a.m. — 8 p.m.

RECONDITIONED SHOCK ABSORBERS

AND STEAM CLEANING

GLASGOW and SON LTD

51 WARRINGTON STREET
CHRISTCHURCH
PH 856-244

SALISBURY MOTEL

206 SALISBURY ST, CHRISTCHURCH 1
PHONE 68-713 — 68-748
IN THE HEART OF THE CITY

Nine luxury self contained one and two bedroom units. Separate lounge, bedrooms, bathroom and kitchen. All units have colour TV, telephone, electric blankets, electric range, refrigerator. Laundry facilities available. Continental breakfast available on request.

Very close walking distance to Square, Town Hall, Restaurants and Parks.
Family Concessions — Moderate Tariff
Props: Della and Dougal Scott

ROWENA GOWNS

109 RICCARTON ROAD

Step out in something new from our special collection of Suits, Dresses, Coats and after 5 wear.
For personal attention and service shop

ROWENA GOWNS LTD

109 RICCARTON ROAD
CHRISTCHURCH
PHONE 486-396

ACCIDENT ACTION

Those vital first minutes

DON'T STAND BY AND LET HIM DIE

UNCONSCIOUS PEOPLE CAN AND DO, CHOKE TO DEATH

Blood, vomit, loose teeth or broken dentures can enter the airway and block it.

The tongue can fall back and block the airway if the inconscious person is lying on his back.

THEY CAN ALSO BLEED TO DEATH. SIMPLE FIRST AID CAN SAVE A LIFE.

PRIORITIES

1. Has more than one person been hurt? Who needs help first? Look after the unconscious person first. Is he breathing?
   IF YES, ensure airway is clear and place in "coma position".
   IF NO, ensure airway is clear and restart his breathing by mouth-to-mouth resuscitation.
2. Stop bleeding by applying direct pressure over the wound.
3. Send for ambulance.
4. Check for danger.

DO NOT TOUCH OCCUPANTS OR CAR IF LIVE WIRES ARE IN CONTACT WITH THE CAR.
DO NOT MOVE CASUALTIES UNNECESSARILY.

CLEARING THE AIRWAY

ACT QUICKLY TO CLEAR HIS AIRWAY AND KEEP IT CLEAR

Inspect his mouth and throat and wipe out his mouth with your finger or with a handkerchief over your finger to remove blood, vomit, loose teeth or broken dentures.

Tilt his head back.

IF HE IS UNCONSCIOUS AND STILL SITTING IN THE CAR

Wipe out his mouth then put him in the "head back" position.

Gently tilt his head back as far as it will go.

Support it in this position. But if there is any bleeding into the mouth, or from the nose, or if he begins to vomit, turn him into the "coma position" at once, whether he's inside the car or outside it.

CHECK FOR BREATHING

LOOK for the rise and fall of his chest; if no movement *LISTEN* for breathing and *FEEL* for breathing.

WIGS TO SUIT ALL STYLES AND ALL MOODS . . .

We have a wide range of the popular Sabra and imported Tovar wigs, more natural than ever before. Cancer patients, Lorna will help you with your personal hair problems.

Relax in our private sitting room.

LORNAS WIGS

PHONE: 385-972 A.H.

44 HOWARD STREET, CHRISTCHURCH

SHEFFIELD GARAGE

SHEFFIELD — L.M.V.D.

For all Mechanical Repairs

Lubrication — Wheel Balancing

And a good range of Used Cars

Call in and see us now

McCORMICK TRANSPORT LTD

6 MILLICHAMP STREET, TINWALD, ASHBURTON

DEPOT PHONES: 83-026 and 7136

Farmers Contact Us For

Lime Sowing — Top Dressing — Bulk Grain — Bagged Grain — Spraying — Bagged Fertiliser — Stock Cartage — Rubbish Bins

Satisfaction Guaranteed

PLAYING WITH FIRE CAN BE FATAL!

Don't take chances — consult the experts in automotive electrical repairs.
Trailers — Caravans — Starters — Generators — Alternators — Exchange Units

KELLAWAY AUTO ELECTRICAL

68 MOWBRAY STREET, CHRISTCHURCH

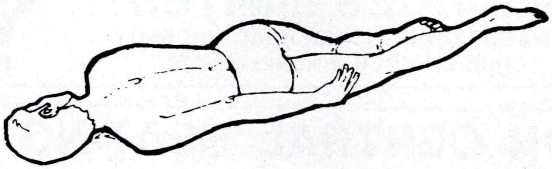
PHONE: 793-976, 793-143

Then, if he is breathing all you have to do is turn him gently into the **"coma position".**

If he is not breathing and you've cleared the airway begin mouth-to-mouth resuscitation at once.

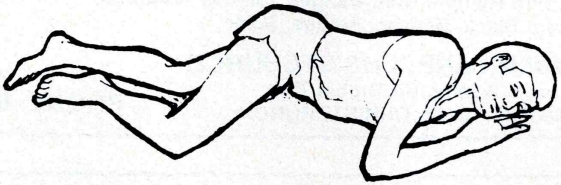
UNCONSCIOUSNESS — THE "COMA POSITION"

NOTE AGAIN: This section only applies to an unconscious person.



Remember

Steady any broken limbs during the turn. Loosen any tight clothing at neck, chest, waist. *NEVER* put a "pillow" under his head.



First turn the person on to his side

Then:

Make sure that the head is tilted slightly backwards so that the chin juts out.

In this position the tongue will fall forward clear of the airway and any blood and vomit will drain forwards out of the mouth.

Then wipe out the mouth with your finger or a handkerchief over your finger in order to remove blood, vomit, loose teeth or broken dentures.

He must be kept on his side, and if you think it can be done without aggravating any injuries:

Bend the uppermost leg and knee until the thigh is at a right angle to the body.

Bend the uppermost arm and elbow so that the hand lies near the face.

Gently pull back the underneath arm so that it lies on the ground behind him.

If moving the limbs appears to be undesirable, a rolled blanket or similar article may be used as a "prop" to keep him in position.

SEND SOMEONE FOR AN AMBULANCE WHILE YOU'RE DOING THIS.

BIGGER AND BETTER THAN EVER, AND NOW WITH EXTENDED HOURS!

Owners Bernie Norton and Dave Stephens invite you to drive on in to the big, bright, new look Shell site. There's a new Shell Shop bursting with specials and bargains . . . step right in and see for yourself. Full mechanical repairs. Tom Thumb car wash. Plus special trailer hire service. A full range for hire: car trailers, salvage and furniture trailers and horse floats. Coal and coke: all in large sack bags at coal yard prices.

New hours: Monday-Friday 7.30 a.m.-11 p.m., Saturdays 8 a.m.-8 p.m., Sundays 8 a.m.-6 p.m.

CARMEN ROAD AUTO SERVICES LIMITED

Cnr WATERLOO & CARMEN ROADS, HORNBY, CHRISTCHURCH PHONE: 499-129

Shell

AVON CENTRAL HEATING CO. LTD

THE HEATING CENTRE

We Measure
We Quote
We Install
We Guarantee

Christchurch's leading heating merchants for: Visor, Warmaire, Kent, Masport, Juno, Warmrite, Empress, Blazeco, Fire Nymph, Coal Ranges, Parkray, Logfires, Montelthan Stack, Belmac, Fuluge, Solar

1 LINCOLN LANE, CHRISTCHURCH
(opp. Addington Timber Co.)
P.O. BOX 10151, CHRISTCHURCH

PHONE: 66-892

Fresh Bake Golden Grain Fibre Bread

This toast sliced fibre bread has been developed for the steadily increasing health food market. This is New Zealand's highest fibre content bread with 250% more fibre content than standard bread. Try some today.

HERRONS BAKERY

TIMARU
PHONE 81-059

DYER & McTAGUE

42 LISMORE STREET, CHRISTCHURCH

PANELBEATING & CAR PAINTING
First Class Workmanship Guaranteed

PHONE 793-635

PRIVATE 883-309 or 326-295

PANEL BEATING

MOUTH-TO-MOUTH RESUSCITATION

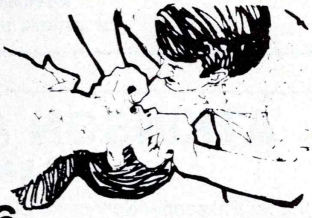
1 Kneel or lie beside patient's head. **Inspect mouth and throat and make sure they are clear.**

2 Tilt his head back and raise the chin upward. Place pad under his shoulders if this can be done immediately.

3 Open his mouth and pinch his nose.

4 Open your mouth, take a deep breath.

5 Seal his mouth with yours and breathe firmly into it . . . just enough to make his chest rise a little.
For an infant blow more gently



6 Remove your mouth and watch his chest fall . . . Repeat cycle every five seconds.

7 Turn him into "COMA POSITION" as soon as he starts breathing because vomiting often occurs at this stage.

Remember

As you breathe into his mouth see that his chest rises, showing that air has entered his lungs. If it does not rise the airway must still be blocked. In this case tilt his head further back and raise the chin further.

Check again that his mouth and throat are clear and make sure that you make an airtight seal when mouth-to-mouth.

Mouth-to-mouth resuscitation can be carried out with the casualty still sitting in the car.

SEND SOMEONE FOR AN AMBULANCE.

SMALLGOODS SPECIALISTS

Ham & Chicken — Luncheon Rolls — Saveloys — Sausage Beef
Pet Rolls — Large — Small — Freezer Packs — Raffles Packed

Deliveries Tuesday and Thrusday

LEWIS STREET BUTCHERY

Kevin and Mike Towart

Cnr. Lewis Street and Hoon Hay Road, Christchurch

PHONE 385-505

LEWIS FOODMARKET

86A WAINONI ROAD, CHRISTCHURCH

OPEN 5 DAYS
For All Grocery Requirements
With IGA Specials and Permanent Instore Specials

PERSONAL SERVICE GUARANTEED

PHONE 897-196
for orders and free delivery

ATKINSON & DOSSETT LTD

PLEASANT POINT

Charter Passenger Service for School's Sports Teams, Social and Club Travel.

Licensed for Pleasant Point, Timaru or Waimate

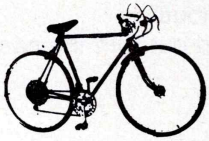
Contact the experts, and relax in comfort in one of our modern coaches.

CHARTERS TO ANYWHERE IN NEW ZEALAND

Phone 856 Pleasant Point for more information.

ALLENTON CYCLE CENTRE LTD

FOR ALL YOUR — Cycles, Trikes, Prams, Strollers, Nursery Furniture, Toys, Cycle Spares & Repairs, Hills Slides, Swings, etc.

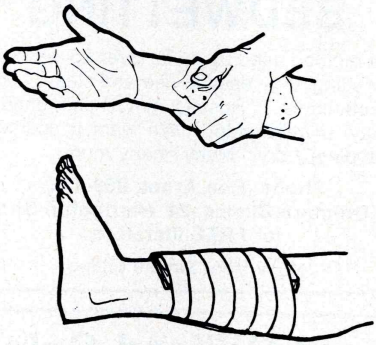


82 Harrison Street, Ashburton

PHONE 89-289

(Ray Beavan, Proprietor)

STOP THE BLEEDING



1. **Uncover** the whole wound.
2. **Apply pressure** by pressing over the wound with your hand or squeeze the edges of the wound together.
3. **Keep pressure** on the wound with a thick pad, bandaged firmly in place. The pad must be big enough to cover the whole wound and all of the pad must be covered by the bandage. You may have to improvise to make the pad and bandage — use any cloth available.
4. Elevate the part but **DO NOT use a tourniquet.** If the person feels numbness, tingling or pain in the fingers or toes of bandaged limb then the bandage is probably too tight. Ease it a little.
5. If **bleeding** continues, apply another pad and bandage, do **not** remove the first one.
6. Sometimes a piece of metal, wood or glass is found in the wound. In this case, apply pressure to the **edges of the wound** by placing pads around the wound and bandaging them in position. This method is also used if a broken bone sticks out of the wound.

HAVE YOU SENT FOR AN AMBULANCE?

CHECK FOR DANGER AND SEND FOR HELP

DO NOT EXPOSE YOURSELF AND THE ACCIDENT VICTIM TO UNNECESSARY DANGER.

GETTING HELP

1. Complete "DETAILS FOR ASSISTANCE CALL".
2. Stop passing motorists from both directions and ask if they will pass on message (in country areas).
3. Vehicles with two-way radios could speed assistance.

BEDWETTING

The Waist Stimulus method used by us for over 25 years will teach to quickly awaken BEFORE wetting, very easy to use and clean. Local reports say "We have a changed household." "Results almost too good to be true." "Dry sheets day after day, unbelievable!" "We want a course for Ann now, the brother remains completely dry!" Many, many more.

Phone: Ron Arnot, 858-116
Or write: Smiths Dri-morn Clinics, 21 Warrington Street, Christchurch for FREE literature

NEW Very Simple Fitting

Regal Billiard Saloon

439A COLOMBO STREET, SYDENHAM, CHRISTCHURCH

SNOOKER – POOL – BILLIARDS – PINS

PHONE: 61-287

Hours: Mon.-Sat. 11 a.m.-11 p.m.; Sun. 1 p.m.-10 p.m.

OPEN SUNDAY FOR CLUB MEMBERS
Enquire about joining now!!

YOUR BOAT NEEDS SPRING SERVICING!
Contact: Garry Hanna Marine

Specialist in ★ Mercury Repairs ★ Johnson Repairs ★ Fibreglass Repairs ★Boat Trailer — Modifications and Repairs ★ Mercruiser Servicing

CALL FOR A FREE QUOTE

GARRY HANNA MARINE SERVICES

177 MACES ROAD, CHRISTCHURCH
PHONE: 891-623; A.H. Gary Hanna, 843-257

GH MARINE SERVICES

CLOTHING DIRECT FROM THE FACTORY

Garment Workshop

254 PORT HILLS ROAD, CHRISTCHURCH

PHONE: 843-404

CLOTHING PARTIES

CHECKING FOR DANGER — to yourself and others.

1. Do not touch occupants or vehicles if live wires are in contact with the car.
2. Turn off ignition of crashed cars.
3. If power lines are causing sparks near but not touching the car remove people quickly in case spilt petrol is set alight.
4. Ensure no one is smoking.
5. Station people to warn other cars and people of any dangers.
6. At night light up the area and use flashing indicators on vehicles as additional warning.
7. Where possible people, vehicles and debris should be cleared from the roadway.

DO YOU MOVE HIM?

SOMETIMES you must move an accident casualty.

But injuries can be made worse by unnecessary movement.
ONLY MOVE THE PERSON WHEN:

HE IS IN DANGER e.g. from fire, traffic or from burns from a hot roadway) or his position makes it impossible to carry out essential treatment (to clear airway, carry out mouth-to-mouth resuscitation or stop bleeding).

If you do have to move him get three or four people to help if possible.

AVOID BENDING OR TWISTING HIS NECK OR BACK – KEEP THEM STRAIGHT, SUPPORT INJURED LIMBS.

Remember: Most casualties will be suffering some degree of shock. One of the best ways of treating this is by reassuring them — but never give alcohol. Keep them quiet and protect them from the weather, but don't allow them to overheat.

BARRYTOWN TAVERN

WESTPORT S.H. 6

29km north Greymouth

Take a stop at a friendly tavern and enjoy a sample of West Coast hospitality

DB ON TAP

DOUBLE GLAZING FOR HEAT AND SOUND CONTROL

With Thermosash Double Glazing
Heat and Noise Control

PHONE: 63-059 or A.H. 588-406 for free quotation

RYLOCK

Home Improvements
96 HAZELDEAN ROAD, CHRISTCHURCH

Sponsored in the interests of Road Safety

SCHOOL & CLUB TRANSFERS and SELF ADHESIVE LABELS

Consult us for your quotations for supply of Club Emblems.
We are specialists in all forms of transfer printing.

Radiant Transfer Co. Ltd

19 BARBOUR STREET, CHRISTCHURCH, 1
P.O. BOX 10-017
TELEPHONE: CHRISTCHURCH 63-750

CANTERBURY COURT MOTEL

140 LINCOLN ROAD, CHRISTCHURCH 2

TELEPHONE: 388-351 — TELEX: NZ 4513

● Separate self-contained units ● Quiet relaxing garden setting ● No traffic noise ● Close to city centre ● Opposite Addington Raceway ● Close to Hospital, Hagley Park, Botanical Gardens ● Fully equipped kitchens ● Colour TV, Telephone ● Central heating ● Swimming Pool ● Laundry & Dryer

Write or call for Brochure and Tourist Guide Location Map

New proprietors: Elva & Stuart Edwards

CAR PAINTING SPECIALISTS

FOR THAT QUALITY FINISH

● Top Class Refinishing ● Work Guaranteed ● Competitive Prices

JOHN D. WHITWORTH

334 WILSONS ROAD, WALTHAM, CHRISTCHURCH
PHONE: 796-412
After Hours: 88-052

DETAILS FOR ASSISTANCE CALL

- Contact **AMBULANCE** and **POLICE** and explain that help is needed urgently at a road accident. Dial the number in the telephone directory or telephone box.
- Contact the **FIRE BRIGADE** if victims are TRAPPED or if there is a risk of fire. (Dial the number listed in the telephone directory).
- Contact as needed (dial the telephone number in the directory or telephone box).
  Electricity authority Gas authority Water authority

Describe location
Name of district, suburb, etc; name of street, road, highway, etc; nearest cross street (suburban); distance from town or major landmark (country), north, south, east or west of.....(describe town or landmark)
Give Accident Details:
Number of people hurt.....Time of Accident (if known).....Time this message written.....

MURPHY FARM MACHINERY LTD

Specialist in small seed pick-ups

8 HANWORTH ST, SOCKBURN, CHRISTCHURCH

TELEPHONE 496-485 — After Hours Telephone 891-057 or 370-789

BUTLERS AUTO SPARES

THE LARGEST NEW SPARES PARTS SHOP IN NEW ZEALAND
ALSO OFFERS COMPLETE WEEKEND SERVICE

7.30 a.m.-9 p.m. 6 Days a Week | 8 a.m.-12 noon SUNDAYS

★ *If you require any new Spare Parts for your car try us.*

WE ALSO HIRE CONCRETE MIXERS, ROTARY HOES, TRAILERS, TOOLS, FURNITURE TRAILERS. PLUS WE HAVE FULL PETROL, OIL & SERVICE STATION FACILITIES.

261 STANMORE ROAD, PHONE 895-358, 898-845
Also at BISHOPDALE MALL. Phone 596-598
LATE NIGHT THURSDAY

IAN SCOBIE TYRES LTD

219 KILMORE STREET, CHRISTCHURCH

Opp. Fire Station

PHONE 61-755

New & Used Tyres, Retreads, Punctures Repaired, Wheel Balancing, Wheel Alignment, Mag Wheels, Batteries, Tyre Vulcanising

Hours: Weekdays 8 a.m.-5.30 p.m.
Saturdays 9 a.m.-12 noon

Central Garage (Cheviot) 1976 Ltd

Agents for:
★ Partner Chain Saws ★ Morrison Lawnmowers & Cultivators ★ Holden, Vauxhall Bedford Service Dealers ★ Full facilities for servicing all makes of vehicles

OPEN 5½ DAYS

PHONE 750 CHEVIOT

BULLER BRIDGE MOTELS

2 BENTHAM STREET, WESTPORT

Special welcome for Canterbury travellers

TELEPHONE 7519

- Children's playground
- Telephone available
- 10 units
- Colour TV
- Continental breakfast

First motel in town

CRESTA CRAFT ROADHOME

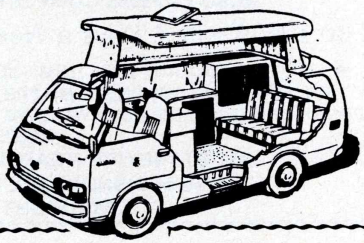
Cresta Craft Roadhome, latest addition to .he range.

CRESTA CRAFT LTD,

99 MAIN SOUTH ROAD,

CHRISTCHURCH

PHONE 487-343



Road Safety for your children

Playing in safety

Stress early that roads are for vehicles, footpaths for people. Even footpaths are likely to be dangerous for the young ones who may be preoccupied when playing with cycles, balls and other toys.

Encourage them to play in safe areas such as the garden or when you are with them in the park.

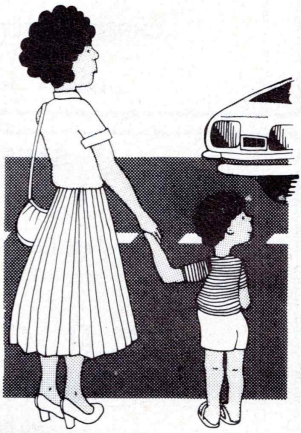
Remember to check around your vehicle before you move it, especially on the driveway. Children like to play in these areas.

Steps in the right direction

Don't allow them to go to busy areas without supervision.

You can encourage good road sense by having the correct attitude.

Teach them to stop, look and listen for vehicles before crossing.



VEGE POT

432 PRESTONS ROAD, CHRISTCHURCH

Why not see us now for all your fresh vegetables when in season.

We have the greatest range in Canterbury.

Sponsored in the interest of Road Safety

WARREN AUTO ELECTRICAL LTD

167 ARMAGH STREET, CHRISTCHURCH

Auto Electricians for all
Alternators, Starters, Generators, Wiring & Accessories

PHONE US NOW: 65-188

Best utilisation of staff and resources is achieved by use of

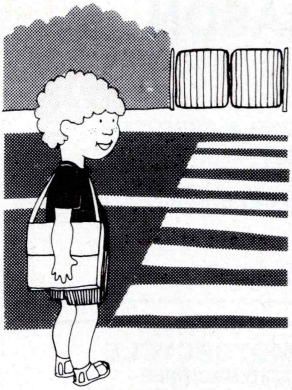
TAIT RADIO TELEPHONE

Equipment, which complies with all post office specifications
Complete range of radio telephone equipment and accessories
For prompt quotations, sales, service and continued customer interest, contact:
CHRISTCHURCH BRANCH: 210 MAIN SOUTH ROAD
PHONE: 488-265
TAIT — THE RADIO TELEPHONE PEOPLE

SAFETY, STYLE OR COMFORT
Combine All Three with
ROLLMASTA
THE LEADING TRACTOR SAFETY CABS
Manufactured in New Zealand
By

C.P. CAMPBELL LTD

South St. P.O. Box 245 ASHBURTON
or Phone: 83-129 Ashburton



Going to school

As your child gets older and schooltime approaches, plan the best and safest way in which to travel to school. Go over the route together several times.

Use bright clothing and bright schoolbags so that children are easily seen.

If you collect your child by car, have a pre-arranged waiting spot on the school side of the road. Don't park close to the pedestrian crossing as this reduces visibility for both children and drivers.

If you like your children 'belt' them up!

Children also need to be restrained in the vehicle. There are many types of child safety harness available for children of different ages. Don't allow your child to stand on the car seats or sit on your lap in the front. If you have to stop suddenly, your child will be thrown from your arms into the dashboard.

Protect your children

Support traffic officers and teachers in developing road safety awareness. If children see you taking a chance then they are likely to do the same.

Reprinted with the kind permission of the City of Auckland Traffic Department, Training & Safety Education Division.

BEVAN S. MASON

BUILDER

WE SPECIALISE IN . . .

● NEW HOUSING ● ALTERATIONS ● ADDITIONS
(Town and Country)

FREE QUOTES — PROMPT SERVICE

TELEPHONE 809 TAI TAPU

FOR YOUR NEW or USED MOTORCYCLE
SEE OUR WIDE RANGE OF SELECTED MACHINES
STEPTHRUS — COMMUTERS — STREET BIKES — TRAIL BIKES — MOTORCROSS — TRIALS BIKES
Used Machines Carry 2 months or 2000 kilometre warranty.
New Machines Carry 6 MONTHS or 6,000 Mile WARRANTY.
SALES — SERVICE — REPAIRS

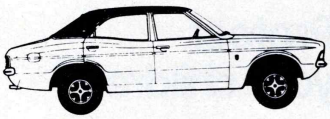
NORJO MOTORS LTD

L.M.V.D.

SUZUKI: Phone 790-457 — 834 Colombo St.
KAWASAKI: Phone 43-493 — 239 Riccarton Rd.

HEI HEI MOTORS LIMITED

Licensed Motor Vehicle Dealers



PHONE 499-873, 499-942

Member L.M.V.D.

*

Prop. Brian Cornelius

McINTOSH CATERING

ASHBURTON

Quality catering at competitive prices for Weddings, Engagements, Birthdays, Cabarets, Balls, etc.

Two Venues:

BRIGADOON — Phone 4860, 22 Carters Tce.

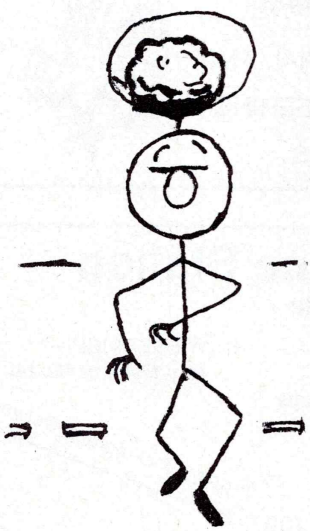
Phone 6774, 150 Chalmers Ave.

Always Watch The Children

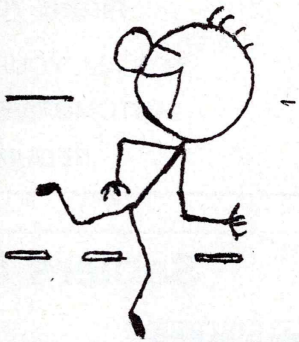
As a caring parent you have probably taken some pains to impress on your child the dangers of traffic and the need to obey road rules and you probably feel the message has got through quite thoroughly.

You could be quite wrong. A study in Sweden in which children were watched in secret as they coped with traffic revealed that children, on their best behaviour while accompanied by adults, are quite different when alone.

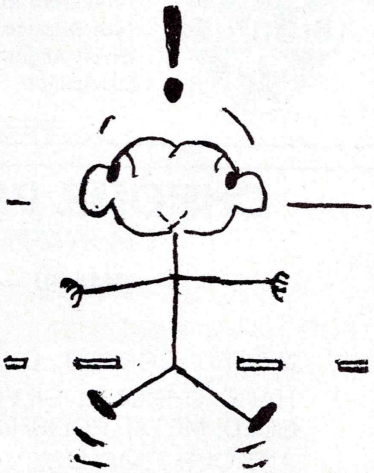
This is how children tend to act when their parents are not watching:–



● **Many step out into traffic without once turning their head to look for vehicles.**



● **Children can become so involved in a game that they forget the traffic.**



● **Some step onto the road — then start looking for cars.**

CHRISTCHURCH-WIDE SERVICE

HOLLANDS MOTOR-CYCLES

2-4 SHAKESPEARE ROAD, CHRISTCHURCH — PHONE 65-261, 65-286

THE BUSINESS BUILT ON GOOD PRODUCTS AND SATISFIED CUSTOMERS
HOLLAND'S HONDA SERVICE

So much for so little. See the latest '79 models available now. Interest Free Terms Available.

FREE LOAN-A-BIKE SYSTEM, BACKS EVERY HONDA FROM HOLLAND'S.

EAGLE ENGINEERING

171 MAIN ROAD, AMBERLEY

PHONE 707 WAIPARA

FOR ALL YOUR GENERAL AND
AUTOMOTIVE ENGINEERING
REQUIREMENTS

Sadlers Service Station

Waimate

CALTEX CAR CLINIC

WE SPECIALISE IN —
All makes of
Tyres, new and recaps
Tyre Balance
Wheel Alignment
Lubrication

WE SERVICE —
Any Make or Model.

FREE Pick-up and Delivery.

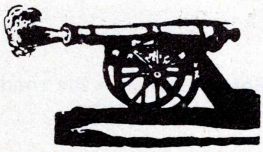
PHONE 7303

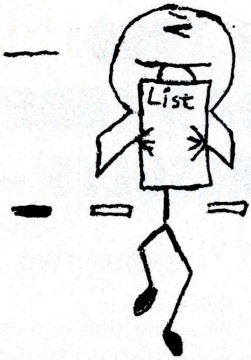
CHROME PLATERS LTD

54 STAFFORD STREET

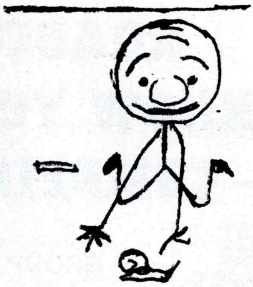
TIMARU — Phone 7513

FOR . . .
NICKEL, COPPER, CHROME,
HARD CHROME, SILVER,
GOLD, METAL POLISHING AND
ANTIQUE FINISHES.

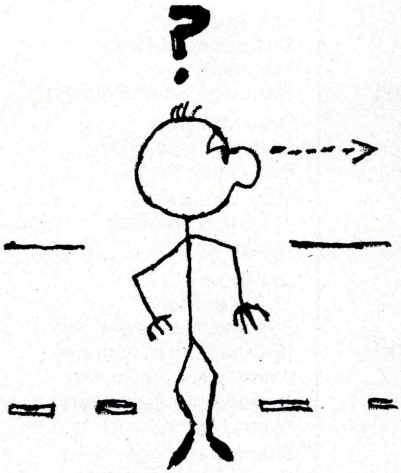




● Children running errands are likely to forget the traffic.



● Children who see something interesting are likely to forget traffic completely.



● Many look only one way.

CANTERBURY DRIVING SCHOOL

A professional and personalised service that guarantees the highest standard of tuition. Nervous and elderly people specially catered for. New dual controlled cars. We teach in the City and all suburbs. Special concessions for students and nurses.

Please Phone
MICHAEL ATKINS
585-747 Anytime

ROADCRAFT'S 1980 "KNOW YOUR ROAD CODE" — COMPETITION RESULTS —

FIRST PRIZE WINNERS	GROUP ONE	GROUP TWO
Area No. 1	Christine Martin, Parau Bay School, c/- Nook Bay Motor Camp, R.D. 4, Whangarei.	Colleen Coop, Whangarei Girls High School, 33 First Avenue, Whangarei.
2	Marcus Jon Garrett, St Patricks School, Taumarunui.	Jeffrey Mears, R.D.1 River Road, Hamilton. (Fairfield College)
3	Leela McFarland, 57 Seventh Avenue, Tauranga. (Tauranga South Primary)	Karl Tata, 51 Cambridge Road, Tauranga. (Tauranga South Primary)
3a	Alexander Buchanan, 29 Geddis Ave, Napier. (Marewa School)	Ross Moultrie, Gillespies Line R.D.5, Palmerston North.
4	Hamish Papple, Bristow Street, Wanganui.	Mary Thompson, 101 Swiss Avenue, Wanganui.
5	Jason Flannigan, 43 McGowan Road, Wainuiomata. (Wainuiomata Primary)	Lisa Brown, 17 Stellin Street, Park Avenue, Lower Hutt. (Naenae Intermediate)
6	Carlene Staines, Springlands School, Blenheim.	Whole class, Room 14, Broadgreen Intermediate, Stoke, Nelson.
7	Catherine Joy Hansen, 8 North Terrace, Geraldine.	Sharon Langridge, Barrytown, Greymouth.
8	Rachel Hore, Oamaru South School, Arun Street, Oamaru.	Raymond Scarlet, Willowbridge School, Willowbridge, No. 10 R.D., Waimate, South Canterbury.

Each of the above winners received a gift voucher for $25, donated by Percival Publishing Co. (NZ) Ltd, the publishers of Road Craft.

SECOND PRIZE WINNERS	GROUP ONE	GROUP TWO
Area No. 1	Stephen James Keary, Puni School, R.D. 3, Pukekohe.	Robyn Marie Hayes, Hukerenui Primary, R.D. 1, Whangarei.
2	Tracey Berger, Ngatera Road, Putaruru. (Litchfield Primary School)	Christine Pattenden, 2a Bains Avenue, Claudelands, Hamilton. (Sacred Heart College)

3	Peter Hoogenboom, 111 Pohutukawa Avenue, Ohope. (Ohope Cubs)	David B. Hutchings, 131 Grace Road, Tauranga. (Tauranga Intermediate)
3a	Jacquie Nicholson, 12 Konini Crescent, Napier. (Onekawa School)	Sheldon Martin, P.O. Box 18 Rangiwahia, via Feilding.
4	Leon Fisher, 190 No. 3 Line, Wanganui.	Jeffrey Saunders, 90 Manuka Street, Wanganui.
5	Christopher Copeland, 4 Guthrie Street, Lower Hutt. (Waiwhetu School)	Fiona Ross, 21 Perry Street, Heretaunga. (Silverstream School)
6	Hilary Jane Pretty, Parkland School, Motueka.	Tony Radich, Riverlands School, Blenheim.
7	Errol Hardie, 4 Heald Street, Dobson.	Anne-Marie Bourke, 210 Otipua Road, Timaru.
8	Susan Lambert, East Gore School, 20 Walker Street, Gore.	Waatere Te Aho, Oamaru Intermediate School, 80 Hull Street, Oamaru.

Each of the second prize winners received $10 with the compliments of Percival Publishing Co. (NZ) Ltd, the publishers of Road Craft.

Now! 5 to 15 year olds,

turn the page and test your knowledge by entering our 1981 Road Craft Safety Competition. The answers to questions can be found either printed elsewhere in this edition of Road Craft or in the official Bicycle Road Code Booklet.

When you know the answers circle the correct reply to the question and then follow the printed instructions to complete your entry.

Good Luck and Safe Journeys.

FIRST PRIZE FOR EACH AGE GROUP IN EACH AREA

An Agfamatic Pocket Camera with unique Sensor Release

SECOND PRIZE FOR EACH AGE GROUP IN EACH AREA

$15

NOTE CAREFULLY

1 Entries must be postmarked not later than 1st October 1981. Prizewinners will be notified by 30th November.

2. The decision of the Association of New Zealand Road Safety Committees in respect of prizewinners will be final and no correspondence will be entered into.

3 Do not delay sending in your entry to your nearest Road Safety Committee (see page 15 for address).

4. Your age group must be written on outside of envelope.

5. The first and second prize-winners from each area and age group will be the entries drawn at random from the barrel and adjudged for correct answers.

ENTER NOW — Check your answers — Cut out carefully where marked and don't forget to write your age group on the outside of the envelope.

ROAD CRAFT SAFETY COMPETITION

ENTER NOW BY CIRCLING THE CORRECT ANSWERS TO EACH OF THE THREE QUESTIONS IN YOUR AGE GROUP.

GROUP 1 — 5-10 YEARS

1. When riding your bicycle on the road, a red traffic light in front of you means:

A. Slow down and be careful.
B. Stop and wait for the green light.
C. Stop only if cars are coming.

2. When riding in a car, the safest place is:

A. Sitting on mum's lap in the front passenger seat.
B. Standing on a seat.
C. Sitting in a properly adjusted seat belt, if one is available to use.

3. The safest place for playing is:

A. On the road.
B. On driveways.
C. In your front or back gardens.

✸ ✸ ✸ ✸ ✸

GROUP 2 — 11-15 YEARS

1. Bicycle riders must obey traffic lights and road signs:

A. If traffic is heavy.
B. Always.
C. Only at night.

2. If you ride when it is dark, you must have:

A tail-light and red reflector.
A. True B. False
A headlight visible for 100 metres.
A. True B. False

3. Bicycle riders are required by law to give the proper signal before turning:

A. True B. False

ENTER NOW FOR THIS YEAR'S

BIG PRIZES IN OUR

1981 ROAD CRAFT SAFETY COMPETITION

1st PRIZE to each age group in each area:

Agfamatic Pocket Camera with unique Sensor Release

2nd PRIZE to each age group in each area:

$15.00 consolation prize

All you have to do is to put a circle around the answer you think is correct, fill out the details required below, state your age group, on the outside of your envelope and post it to your nearest Road Safety Committee whose address you will find on page 15.

The answers to questions can be found either printed elsewhere in this edition of Road Craft or in the Official Bicycle Road Code Booklet.

COMPLETE THIS PART

NAME .....

AGE .....

AGE GROUP .....

SCHOOL .....

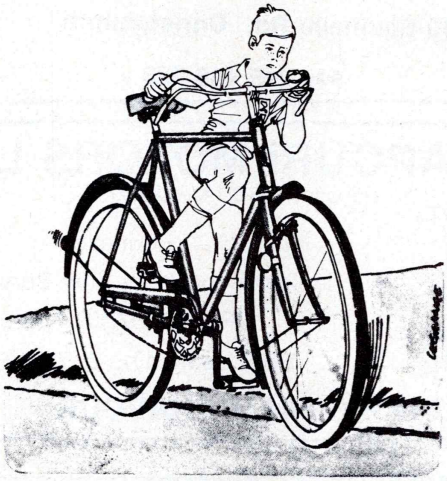
ADDRESS .....

.....

READ INSTRUCTIONS OVER THE PAGE BEFORE POSTING.

MIKE MEETS HIS NEW BIKE

Or: Why Mike Had A "Crash" Course



Meet Mike. Mike was nine years old the other day and his parents bought him a brand new bicycle for his birthday.

Straight after his party Mike was out on the road testing his new machine. It looked good, in fact it was an excellent bike. The only trouble was it was far too big for him. Mike could barely touch the pedals, let alone the ground. The handle bars seemed miles away and it was a real effort to reach them and turn a corner.

All of a sudden Mike saw a car reversing out of a driveway. He panicked. He wasn't strong enough to apply the brakes, he couldn't touch the ground and he couldn't turn.

Mike spent the next two weeks in hospital—his bike, completely ruined.

The thing is, Mike's accident could have been avoided had Mike and his parents gone to the bike shop together and taken all the following into consideration:

PARENTS' RESPONSIBILITY

When planning to purchase a bicycle, parents should be aware of their responsibilities. These range from selecting a proper model to endeavouring to ensure that traffic law requirements are met.

First of all they should ask themselves the following questions:

(1) Is the child old enough:

M. G. COULBECK LTD

- Sheet Metal Workers
- Metal Pressing

309 Blenheim Rd, Christchurch

PHONE 486-023

MANAPOURI MOTORS LTD

(Proprietor: ROD MACRAE)

Petrol — Lubrication

Mechanical Repairs — Tow Service

OPEN 7 DAYS A WEEK

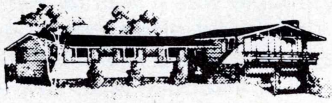
Boat Launching & Boat Service

PHONE 644, MANAPOURI

REDWAY and BERRY

Home and Commercial

Building Contractors



PHONE 7783 WAIMATE

TEMUKA PANEL REPAIRS (1978) LTD

(Now under new management)

FRASER STREET, P.O. BOX 21, TEMUKA

PHONE: 364, After Hours 337

★ All panel repairs ★ All types of vehicle painting
★ 24-hour Breakdown Service ★ 24-hour Service

* To understand traffic laws?
* To learn and remember the safety rules?
* To ride and share with other road users?

(2) Is the neighbourhood safe for children on bicycles?
(3) If the area is not suitable for bikes, are there places nearby where boys and girls may ride safely?
(4) Do we have the patience to teach our children laws and safety rules?
(5) Are we willing to help them while they are learning to ride, and do we have the time to show them to take care of their bikes?

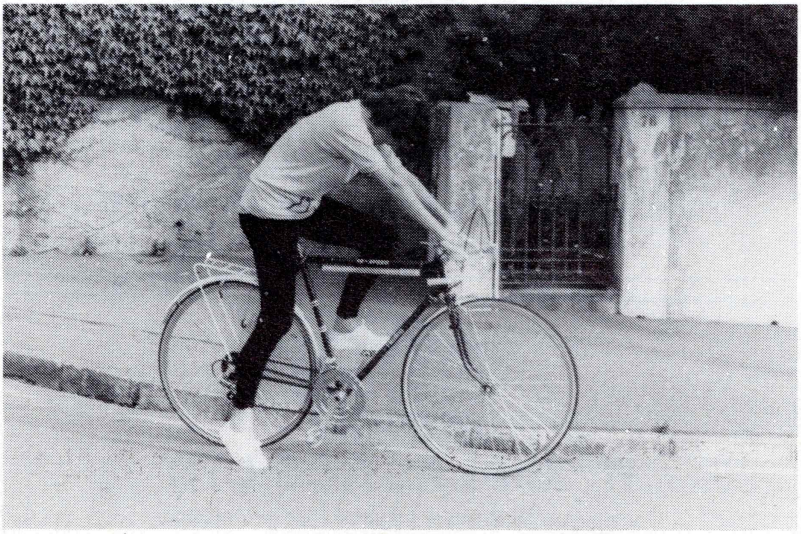
If some of the answers are "No", it might be best to reconsider. If the answers are "Yes", and you decide to buy the bike, the next questions should be 'What size and what kind?'

SELECTING A BIKE

Bicycles are measured by the size of the wheel and the length of the frame tubing from saddle to crank. Tyre size and wheel size are the same.

If the frame size is too large the cyclist will not be able to reach the pedal at the bottom of the swing. If the rider can't do this they swing from side to side and this is extremely dangerous.

Another important factor when selecting a bicycle is reach. This is the distance from the front of the seat to the beginning of the handlebars.



The bicycle should be at a height where the rider can touch the ground easily when the machine is upright. Not only is this important when riding the bike, it is also necessary when moving from a stationary position.

BARWOOD MOTORS LTD

TALBOT ST, FAIRLIE

Over 60 years of service to the people of South Canterbury is your guarantee.

Cartage of all general goods anywhere in South Canterbury

Phones: Bus 8583 Fairlie (2 lines)

A.H. Stewart Barwood — Phone 8411 Fairlie

BEAUTIFY YOUR INDOOR ENVIRONMENT WITH INDOOR PLANTS
LARGEST SELECTION IN THE CITY

PHONE 63-379
After Hours 388-402

ALSO PLANT CONTAINERS,
MACRAME and POTTERY

FLOWER & PLANT CENTRE
CATHEDRAL SQUARE
CHRISTCHURCH
Next to Bank N.Z.

SPARKS ROAD SERVICE STATION LTD

Petrol — Garage Repairs — New Tyres — Lubes — Balancing

Open 6 Days

Cnr Sparks and Hoon Hay Roads, Christchurch

PHONE 389-585

R. X. PLASTICS LTD

★ Injection Moulding ★ Irrigation Pipe ★ Extrusion

Malcolm McDowell Road, Ashburton

Phone 89-599 **P.O. Box 360**

If the reach on the cycle is too short the rider's elbows will get in the way and it is too long the rider will have to stretch forward, carrying too much weight on his arms and back.

To determine the proper size first measure leg length of the child from crotch to floor (wearing flat heels). Then consult the following guide. For small children, age is indicated rather than leg length. These bicycles have trainer wheels.

WHEEL SIZE	AGE	FRAME SIZE	LEG LENGTH
12 inch (300 mm)	2—4		
16 inch (400 mm)	3—5		
20 inch (500 mm)			22½ inches (565 mm)
24 inch (600 mm)			26—28 inches (650—700 mm)
26 inch (650 mm)		17 inch (425 mm)	28—29 inches (700—725 mm)
27 inch (675 mm)		19 inch (475 mm)	30—31 inches (750—780 mm)
		21 inch (525 mm)	33 inches (825 mm)
		23 inch (575 mm)	34 inches (850 mm)
		19 inch (475 mm)	31½ inches (790 mm)
		21 inch (525 mm)	32½ inches (815 mm)
		22 inch (550 mm)	33½ inches (840 mm)
		23 inch (575 mm)	34½ inches (865 mm)
		24 inch (600 mm)	35½ inches (890 mm)
		25 inch (625 mm)	36½ inches (915mm)

The kind of bike you buy should be determined by the following factors:

★ The child's age.
★ The purpose for which the bike will be used.
★ The price you wish to pay.
★ The type of usage it will get — rough, medium, or light.
★ Your concern for safety.
★ Last but not least, what kind of bike does your boy or girl want?

Regardless of the type of model you finally decide to get, make sure it is the proper size. A bike which is too large or too small may be unsafe to ride.

If you buy a bicycle which is not assembled, make sure you know how to put it together before you take it home. Those multi-speed gears can be tricky. If there is any doubt, ask the dealer to do the job, or to tell you where it can be done.

Certain equipment is required by law, so make sure of all of these items when you discuss prices with the dealer.

FRAMES

The frame of the bicycle is the most expensive and important part of the machine. It is the determining factor of bicycle weight and generally the lighter the frame the more expensive it will be.

JAMES AUTO SERVICES

CHALMERS STREET, HORNBY, CHRISTCHURCH

PHONE: 495-071

After Hours: 556-627

Proprietors: Reid & Brian James

FULL MECHANICAL REPAIRS
including
AUTOMATIC TRANSMISSION SERVICING

(Between Hornby Mall and Denton Park)

HALLS HERBALIST

Established 1887

Bulk Packs of Health Foods, Dried Fruit, Honey, Farm Fresh

Eggs, Natural Cosmetics

117 ARMAGH STREET, CHRISTCHURCH

FARRINGTON WINES

For a comprehensive selection of wines & sherries

We always have a large range of weekly instore specials

★ Use Our Free Delivery ★

119 FARRINGTON AVENUE, CHRISTCHURCH

PHONE: 599-141

TOOLS – for all trades

USED TOOLS: At Megson's we have an extensive range of tools, accessories and equipment to suit all trades and hobbies at used prices but in "as new" condition to help you "tool-up" at less expense.
NEW TOOLS: Whether you're engineering, woodworking, a mechanic, gardening, we have the best tools you can buy.
WE BUY TOO: If you've changed your job or speciality and have tools you no longer need, we can offer you a good price and buy them from you.

MEGSON TOOL & EQUIPMENT

135 HIGH STREET, CHRISTCHURCH
Next to BNZ Cnr St Asaph Street
PHONE: 65-239
After Hours: 857-500 — P.O. Box 22-656

To judge the frame, lift it feeling its weight and knock a tube with your finger listening for the ringing sound of a good metal.

A low priced frame is sturdy and heavy and consists simply of a series of tubes welded together. Better quality frames are joined by lugs. These involve the addition of reinforcing metal at stress points.

When looking for a used frame, check it carefully for alignment. Look down the length of the tubes to check for flaws or bumps. Keep away from frames with kinks as this indicates that the tube has been bent and straightened and is weak at this point.

Also look for paint damage that has been caused by heat. This indicates that a blow torch has been used on the metal, usually to straighten it. Frames with this type of repair can be unsafe.

WHEELS

Most cycles today have wheels between 300 and 700 mm in diameter. The size has a marked influence on the riding characteristics of a particular cycle, the larger the wheels the easier the bicycle is to propel.

Smaller wheels are slightly more difficult to drive. But they are lighter and their size enables them to be packed away in the back seat of a car. This also makes the bike more manoeuvrable.

Both steel and aluminium wheels are used in wheel construction. Aluminium wheels with stainless steel spokes are better as they are less prone to rust.

TYRES

There are four basic types of tyres:

They are:

— pneumatics

— balloons

— tubulars (also called tubs)

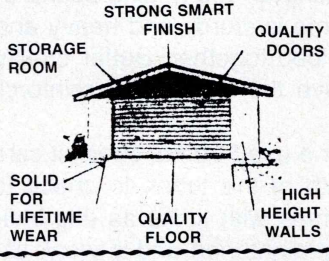
— sew ups (sew ons)

— clinchers (wired-ons or wire-ons).

Pneumatics were popular in the past and were simply known as bicycle tyres. Today they are found only on heavy duty delivery cycles. They are tough and have a long life and punctures are easily fixed.

Balloons are also heavy duty tyres. They can be very difficult to pedal as they run on a comparatively low pressure.

ANDERSON GARAGES



FULL FINANCE

PHONE: 68-857

CHRISTCHURCH

TURBOCHARGED BY RAJAY Available from NZ Distributors

Turbochargers Inc (NZ) Ltd

For: Increased Power — Increased Economy

Fit: RAJAY TURBOCHARGERS — IMPCO BOOST CONTROL

A subsidiary of DSL (Chch) Ltd, 65 Blenheim Road, Christchurch, Phone 488-700

BRANCHES AT: ASHBURTON, TIMARU, INVERCARGILL

TRADE ENQUIRIES WELCOME

A. K. BOTTLE EXCHANGE

For Beer & Lemonade Bottles & Flagons

OPEN DAILY

ALSO SATURDAY MORNING BOTTLE DRIVES

Contact us

498 WAIRAKEI ROAD, CHRISTCHURCH

PHONE: 599-290 Anytime

AA
CANTERBURY
Breakdown Service

PARKS

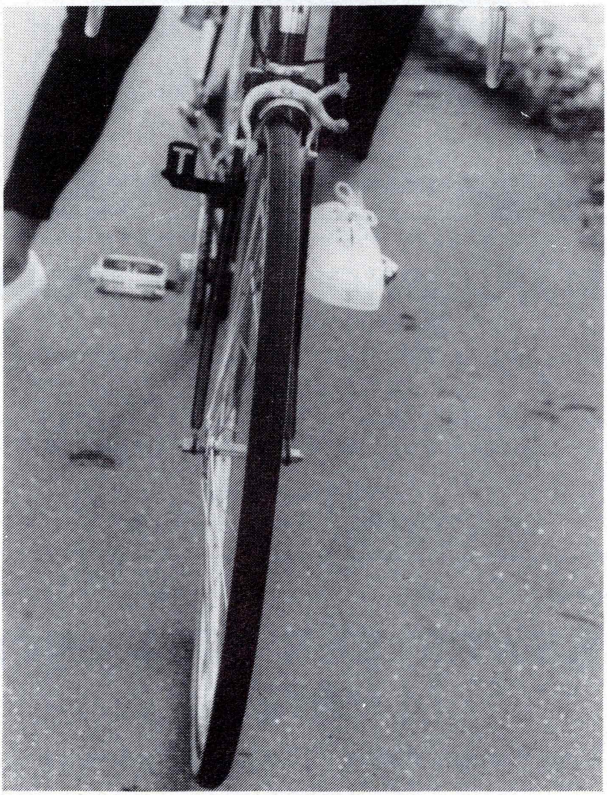
Full 24 Hour Breakdown and Repair Service

238 SALISBURY STREET, CHRISTCHURCH

PHONE: 67-615

24 HOUR SERVICE

Tubulars are commonly found on racing and touring bikes. They are faster than other tyre types because they are considerably narrower, have less tread and run at a higher pressure.



Tyres differ from bicycle to bicycle. Normally a 10-speed model will have a much thinner, lighter tyre. This can be pumped up tighter than the more conventional tyre and enables the rider to travel at a faster speed.

"HELMARCO" PRODUCTS LTD

Treat your caravan to a

● Top quality awning ● All types of canvas goods ● Also for hire tarpaulins

For light and heavy weight trucks.

Covers for all use. — Repairs etc.

13 Shakespeare Road

(opposite Hollands Honda) Christchurch 2.

PHONE: 63-148

TIMARU WHOLESALE MEATS

We are suppliers of farm-fresh

★ Sides of Hogget ★ Sides of Wether Mutton ★ Sides of Pork ★ Sides of Beef

Shop with us and save on: Bacon, Lambs Fry, Kidneys, Sweet Breads, White Puddings, Chippolatas, Sausages, Savoury Meats, Saveloys, Cheerios, etc.

PHONE 84-462
51 Stafford Street, Timaru

ANSWER SERVICES (NZ) LIMITED

24 Hour Service. Phone 795-820 Christchurch anytime.

- **Personal Answering Service**
- **Radio Telephone Service**
- **Alarm Monitoring**

For safe driving — a reliable motor vehicle is essential

SAMPSON'S GARAGE

144 SOMERFIELD STREET, CHRISTCHURCH
(Opposite Beckenham Post Office)

WE PROVIDE CAR CARE FOR ALL CLASSES OF VEHICLES

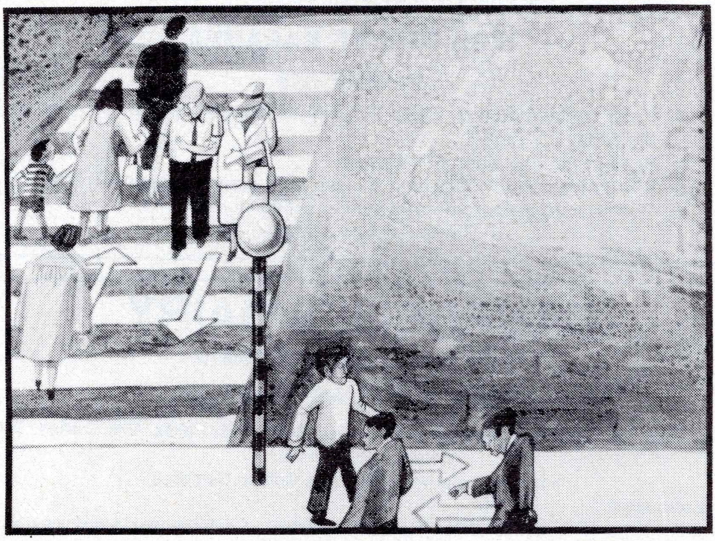
Garage — Full Repairs — Lubrication — Electronic Tuning — Vehicle Examination during Lubrication just part of the service!

PHONE 35-077, 35-078

SAFETY ADVICE

for Pedestrians

Reprinted by kind permission of the
Training and Safety Education Division,
City of Auckland
Traffic Department.



Keep to the left on the crossing and when on the footpath. It makes it easier for everyone.

Mobil

BAY SERVICE

1976

MAIN NORTH ROAD KAIKOURA

AGENTS FOR A.M.B. FIAT TRACTORS AND NEW HOLLAND BAILERS

Breakdown Service

Phone 246 or 373M

Dunlop's New Tyres and Recaps

CRUNCH!

★ PANELBEATING

★ CAR PAINTING

ENGLISH MOTORS LTD

52 Riccarton Road, Christchurch

PHONE 486-761

SEAVIEW MOTEL

HIGH STREET, KARAMEA

PHONE 838

- 6 self contained units. Sleep 2-5 with all modern appliances, electric blankets, T.V., etc.
- Right in the township of Karamea.
- ½ mile from Post Office and 9 miles from start of Heaphy Track.
- Golf course, aerodrome and fishing within ½ mile.

Props: Myrtyle & Melvin Johnson

CAMPBELL'S DAIRY

Main South Road, Tinwald

PHONE 83-123 ASHBURTON

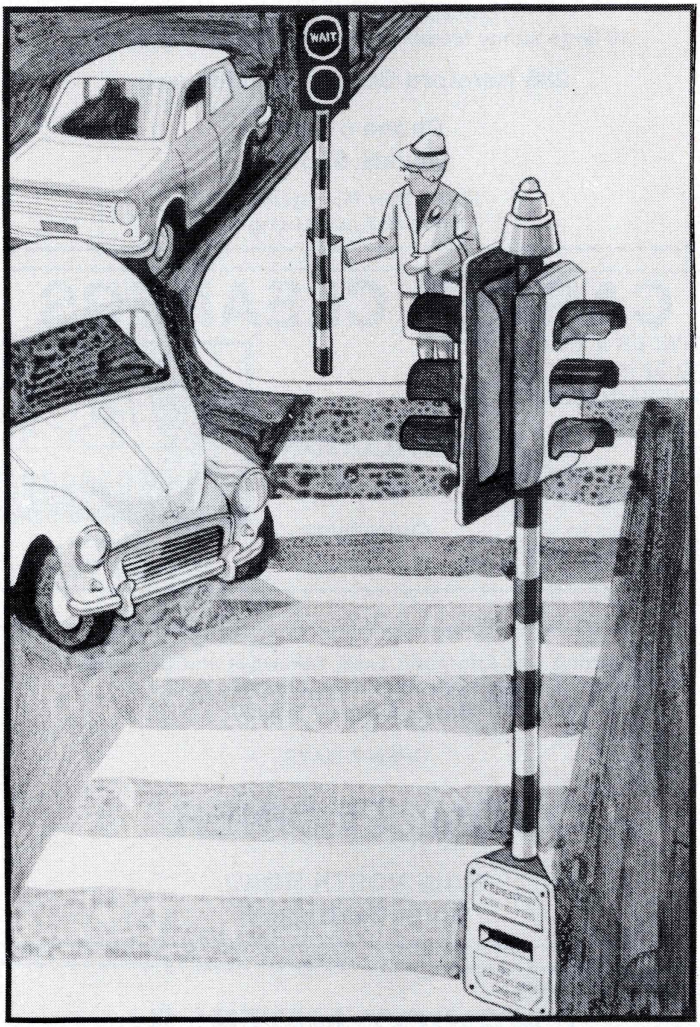
Call in for light Take-aways, Sandwiches, Bread Rolls, Pies, Cakes, Milk Shakes, Soft Drinks, Ice Cream, etc.

Your new proprietors: Shona & Gordon Campbell

We also stock . . .

A wide range of Groceries, Fresh Fruit & Vegetables, Confectionery, Magazines and Paperbacks.

The Small Shop That's Big on Service



Where the crossing is controlled by traffic lights, press the pedestrian button and wait until the 'cross' signal appears. The lights won't give you a 'cross' signal until someone pushes the pedestrian button. Take extra care when stepping out in front of a vehicle that has stopped for you. When crossing with the flow of traffic ensure that you check over your shoulder for turning vehicles.

MAYFAIR COURT MOTEL

Closest 5 star to the square
10 large sunny Motel Flats completely self-contained.

285 Hereford Street, Christchurch

Phone 61-266
Guests 63-762

Under New Management
Tony and Judy Long

CARPET CLEANERS

GIVE US A TRIAL
YOU BE THE JUDGE
AVERAGE COST

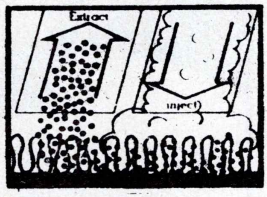
LOUNGE, DINING ROOM, HALL, **$29**
BEDROOM $8 EXTRA

Quotes for out of Town Work

B. WALDRON

885-719

Christchurch



24 Hour
Answer Service

Morning and Afternoon Teas, Takeways and Groceries
Try our 10 flavoured Ice Cream in cones
Hours: 8 a.m. — 9 p.m.

OPEN 7 DAYS

DOMETT DINER

MAIN NORTH ROAD
North Canterbury

Come to the Country

CHEVIOT MOTELS

(opposite Showgrounds)

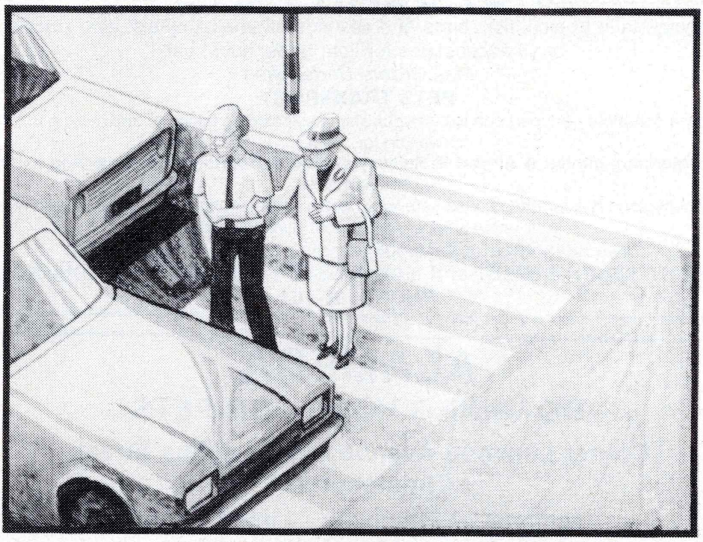
6 units — self contained, fully equipped.
2 units — sleep 4 3 units — sleep 3 | 1 unit — sleep 2

Caravan Park opening soon. All facilities — childrens play area etc. Quiet surroundings well off main road.

Your Hosts: Judith and Dick Lacy

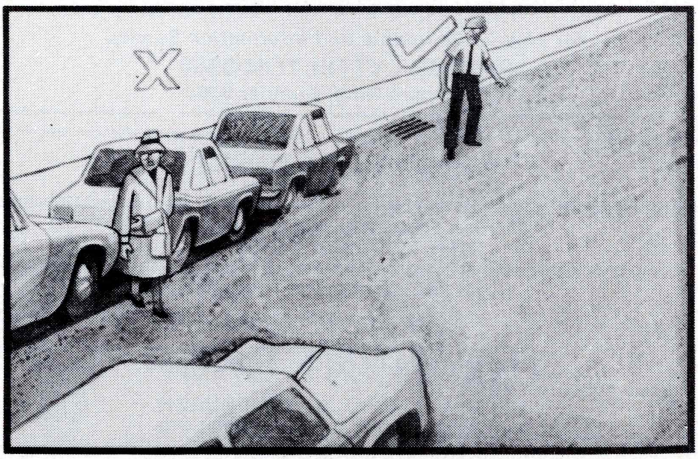
Ward Rd, Cheviot

PHONE: 607 Cheviot for bookings



Even when a driver stops for you, never take it for granted that all other drivers will stop their vehicles for you. Make allowances for human nature and other people's mistakes.

If there is no pedestrian crossing or traffic signal, try to find a safe place to cross away from parked vehicles. STOP, LOOK AND LISTEN, and when the road is clear, cross as quickly as possible, keeping a good look out for vehicles that may appear from nowhere.



POPULAR PETS

Specialists in tropical fish, birds and all kinds of small animals, also stockists of all accessories for fish, birds, dogs, cats.

Mail Orders Undertaken

PETS TRANSPORT

Now a complete transport service for your animals, including taking to and picking up, or waiting for, from . . .

● Veterinary clinics ● Airport ● Railway station ● Boarding homes ● Dog baths ● Cage hire

Strict hygiene is guaranteed, also safe wire cages. An Ansaphone has been installed for your convenience. An efficient service is offered.

Take advantage of our popular pets boarding establishment

Cnr ST ASAPH STREET and MANCHESTER STREET, CHRISTCHURCH

PHONE: 60-204

ALAMEDA

BOARDING HOME FOR PETS

Corner Linwood Avenue and St Johns Street, Christchurch 6

National — Freighting — International

Hours: 9 a.m. to 12 noon, 3 p.m. to 6 p.m., Sundays 4 p.m. to 5 p.m.

TELEPHONE: 841-297

Your pet's home away from home

DIAMOND HARBOUR LAUNCH SERVICES

Daily Commuter Service to Diamond Harbour; Daily Harbour Cruise with commentary leaving Lyttelton at 2.50 p.m.

Launches available for Charter to various bays and islands in Lyttelton Harbour. Also available for Fishing Trips.

For 24-hour Timetable and Information Service

PHONE: LYTTELTON 8368

After Hours Ring: Sumner 6584

CONGRATULATIONS!

To over 30 Canterbury & Westland schools who, since our circular last November, have discovered the merits of PRINTED SCHOOL T-SHIRTS

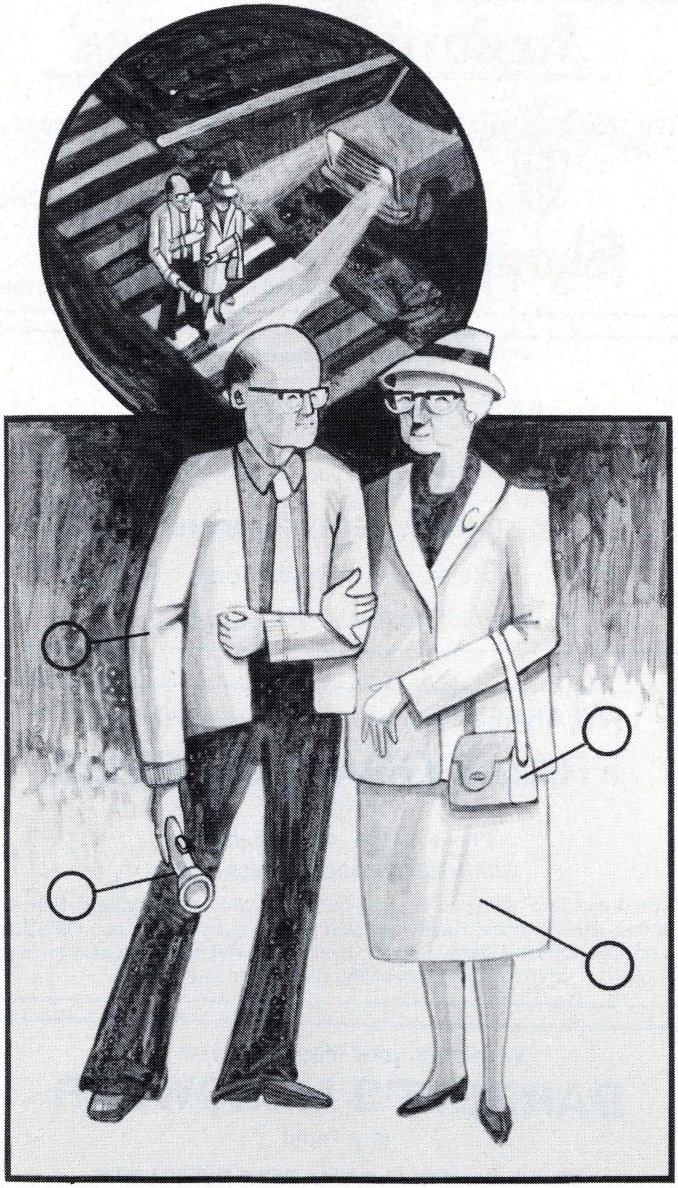
If your school is contemplating such a venture, remember we specialise in quality "Hanes" garments at wholesale prices.

Contact: Supershirt Division

THE PRINT SHOP

185 FERRY ROAD, CHRISTCHURCH

P.O. BOX 10-134 — PHONE: 796-178



Wear light-coloured clothing. It is very difficult for drivers to see people dressed in dark clothing. We suggest that you wear or carry something white, bright or reflective, and use a torch at night, so that you can see and be seen.

Resonia Antiques

"Ye Old English" Shoppe

71A MANCHESTER STREET, CHRISTCHURCH

Antiques — Furniture — Paintings — Silver & Porcelain

Director: Mrs M. Brian

PHONE: 69-286 Business, 389-230 Private

Hospitality and special service at the

METHVEN HOTEL

Your Hosts: Judy & Mike

PHONE: METHVEN 28-046

Relax in our modern bars

When in Methven – Be our guests

FARMERS support your local seed merchant

FRAME GRAIN & SEEDS

CULVERDEN

Phone: 68M — After Hours: 68D

GRAIN SEED PRODUCE MERCHANT

Expert dressing of all types of small seeds. Advice on all matters. Farmer to farmer sales service. Have your own wheat, oats, barley, etc. Othocide treated. Cut transport costs. Support the Amuri seed cleaner. Grain grinding & bulk handling versatility. Call in and see us now.

Whatever your lifestyle a visit to

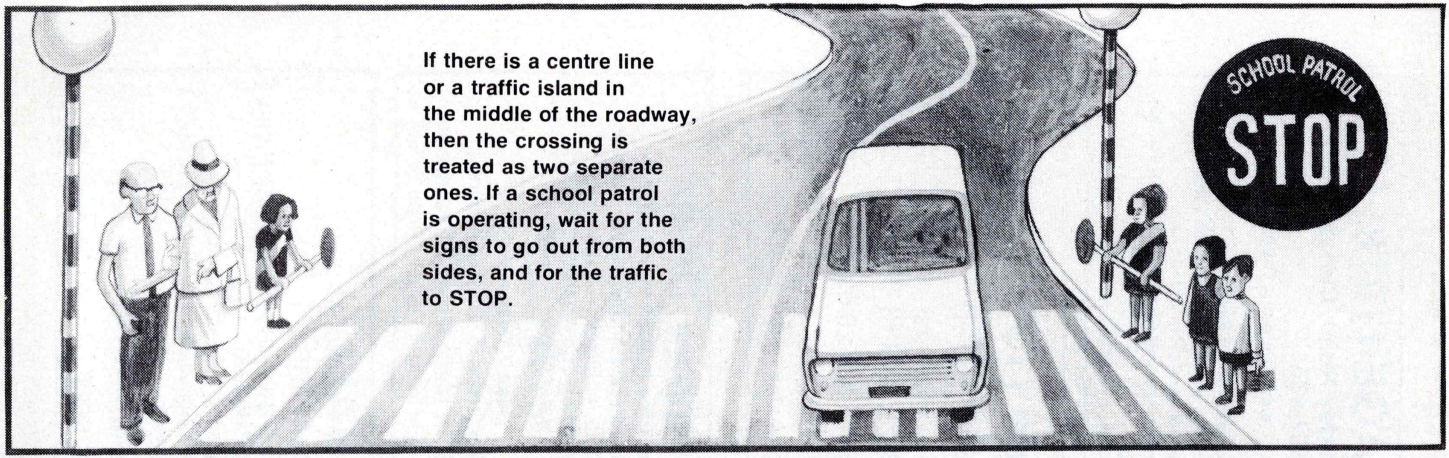
BARRETT'S MENSWEAR

is a must

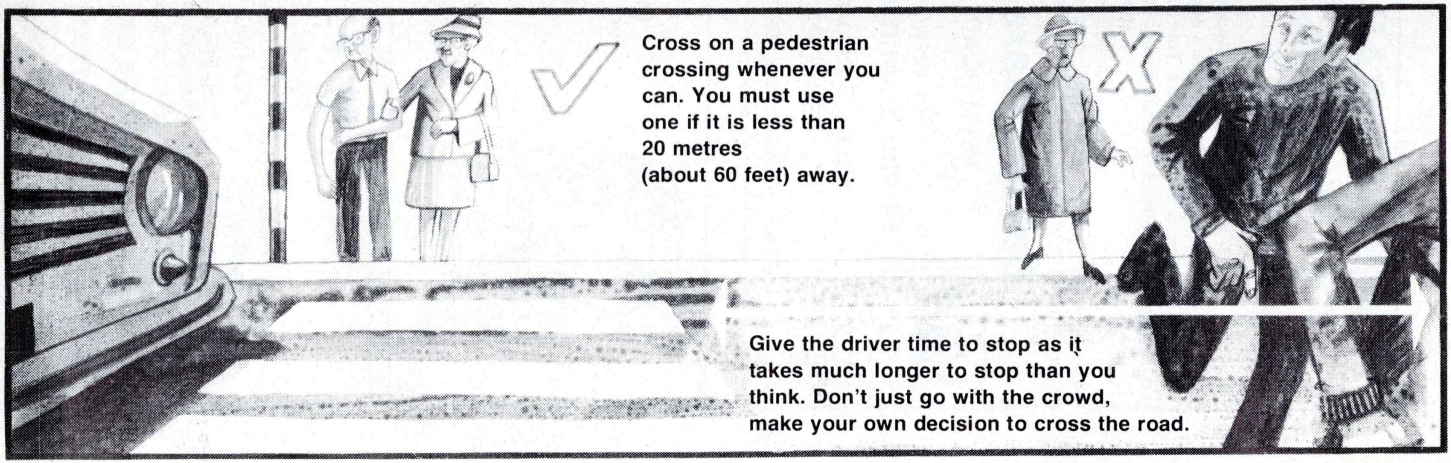
We are stockists of quality men's and boyswear

Visa – Bankcard, Welcome
Layby for Christmas

EDGEWARE VILLAGE MALL, CHRISTCHURCH
PHONE: 64-236



If there is a centre line or a traffic island in the middle of the roadway, then the crossing is treated as two separate ones. If a school patrol is operating, wait for the signs to go out from both sides, and for the traffic to STOP.



Cross on a pedestrian crossing whenever you can. You must use one if it is less than 20 metres (about 60 feet) away.

Give the driver time to stop as it takes much longer to stop than you think. Don't just go with the crowd, make your own decision to cross the road.

FIVEWAYS GARAGE (1978) LTD

Corner Hills Road and Shirley Road, Christchurch

PHONE 852-435

Hours: Monday, Tuesday and Wednesday 7 a.m. to 8 p.m.; Thursday 7 a.m. to 9 p.m.

Shell Service ● Shellubrication ● All Repairs

Notice to caravanners. We are now a complete authorised TROJAN Caravan and Trailer Service Centre. Tow Bars, Suspension, Brakes, etc.

(LP Cylinder), PRIMUS GAS and small bottles filled. Instant refill — No delay — No swaps

Sponsored in the Interest of Road Safety

Bakers Garage (1966) Ltd

MAIN ROAD, ST ANDREWS

AA CANTERBURY Breakdown Service

For service at all hours

Phone St Andrews 889 (2 lines)

Timaru Subscribers dial 26-899

EUROPA — LMVD

europa

AFTER HOURS: Laurie McCarthy, 735; Jack Day, 658.

Hiway Diner

The Place to Stop in St Andrews

For Good Food and Excellent Service

Grills — Meals — Takeaways

Morning and Afternoon Teas

Lunches — Dinners

B.Y.O. Licence

Open 7 Days a Week

Telephone 519 St Andrews

or call in Main Road St Andrews

Sponsored in the Interest of Road Safety

M. F. BALL

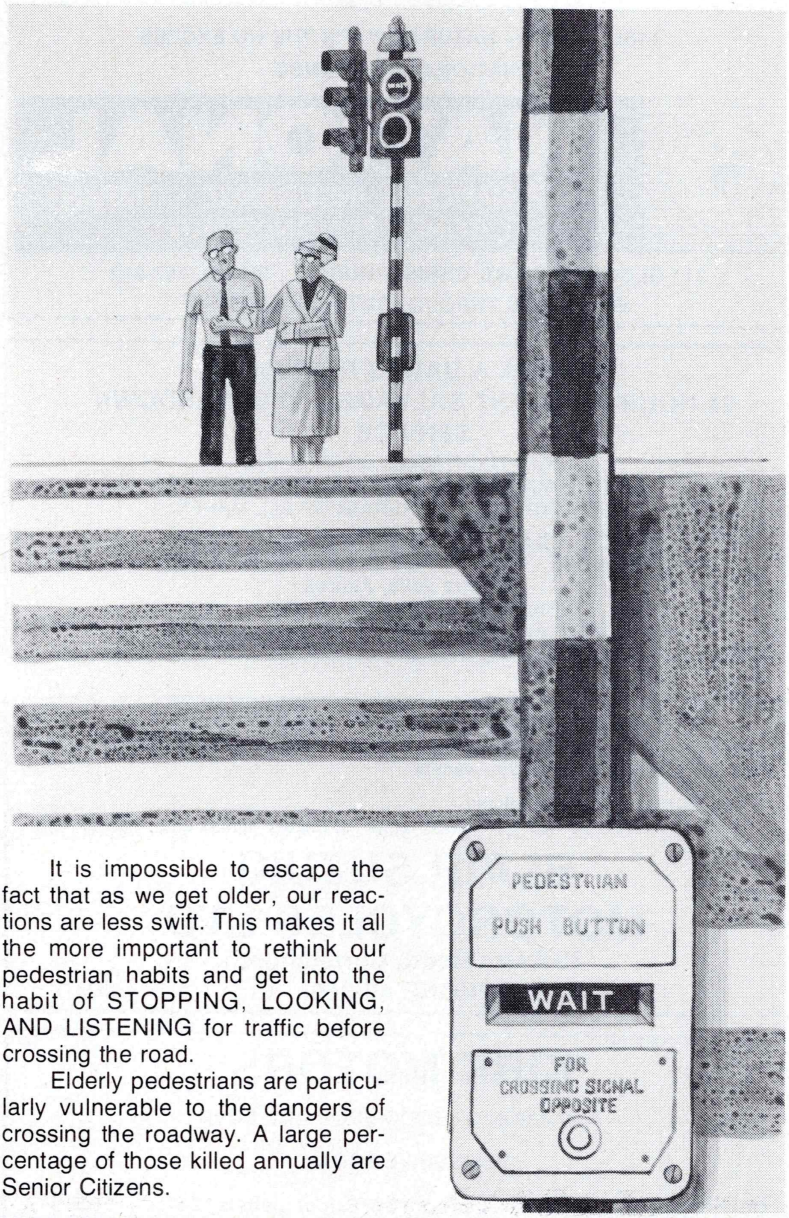
PANEL BEATERS

CALL ON THE EXPERTS FOR ALL SMASH REPAIRS AND QUALITY PANEL-BEATING & PAINTING

Fast Efficient
Windscreen & Door Glass
Replacing Service

MOORE ST, ASHBURTON

PHONE 5622



It is impossible to escape the fact that as we get older, our reactions are less swift. This makes it all the more important to rethink our pedestrian habits and get into the habit of STOPPING, LOOKING, AND LISTENING for traffic before crossing the road.

Elderly pedestrians are particularly vulnerable to the dangers of crossing the roadway. A large percentage of those killed annually are Senior Citizens.

- SEE AND BE SEEN.
- STOP, LOOK AND LISTEN.
- CROSS WHERE AND WHEN IT'S SAFE.

INSURANCE — NATURALLY IT'S THE NO EXCESS

NATIONAL INSURANCE

NATIONAL

THE NATIONAL INSURANCE COMPANY
OF NEW ZEALAND, LIMITED

217 GLOUCESTER ST, CHRISTCHURCH :: PHONE 797-852
BRANCHES THROUGHOUT NEW ZEALAND

AKAROA & BANKS PENINSULA
24 HOUR ACCIDENT SALVAGE and BREAKDOWN SERVICE

HIAB HYDRAULIC CRANE HIRE
MOTOR MARINE and GENERAL ENGINEERING
OUTBOARD MOTOR REPAIR OF ALL MAKES

HELPS MOTORS LTD

104 Rue Jolie, Akaroa
Phone 92 — After Hours 192
24 HOUR SALVAGE and BREAKDOWN SERVICE

EASY RIDERS . . . WANT A FAIR DEAL?

Come and see a guy who knows and enjoys the life of motorcycling. Talk about bikes and make sure you get what you want at

All new Suzuki models available

Good range of Suzuki spares and accessories

BLAIR SUZUKI MOTORCYCLES LTD

38 Ferry Road, Christchurch
PHONE 66-866

L.M.V.D.

KIRK MOTORS

A DIVISION OF TODD BROS LTD. LMVD

TEST DRIVE TODAY

Our range of Mitsubishi Mirages both 3 or 5 door models 1244cc — 55 BHP
also the Mitsubishi Lancer 1250cc or 1600cc

PHONE 80-135

BARNARD STREET TIMARU

This report has been reprinted in the interest of road safety and as a reminder to us all of the tragic "Traffic Disease" prevalent in our children, something of which we can all help reduce, if we would only heed the advice given by the findings of this report.

Our special thanks to Prof. Veale, Department of Community Health, University of Auckland, for his kind permission to give this report the wider coverage it deserves.

– The Editor.

THE "TRAFFIC DISEASE" IN CHILDREN

Tord Kjellstrom and Kinsie Hope, Department of Community Health, University of Auckland.

This is a summary of a study of all traffic accidents in the Auckland area 1970-77 in which a pre-school child was injured and admitted to hospital. Some additional analysis of the data have also been included in this report.

Children's Traffic Accidents

Traffic accidents are the cause of one in six deaths among New Zealand preschoolers. Twenty years ago only one in twenty preschool children's deaths were due to this cause, but children's traffic accidents have increased while other causes of death have decreased.

New Zealand has higher traffic accident death and injury rates than a number of other countries with similar geographic and traffic characteristics. For example, Sweden has only a third of the New Zealand rates.

The adoption of successful prevention programmes used overseas, should be seriously considered. A majority of the 30 preschool children who die on the road each year or of the 500 children who are injured, would not have been injured at all if the accident rates were as low here as in Sweden.

The study reported here was undertaken in order to learn more about the detailed causation of traffic accident injuries in children, and about the occurrence of long-term after-effects of the injury.

The Study Plan

The study included all preschool children who, during 1970-77, had been hospitalised in the Auckland area as a result of motor accidents. Of 529 studied, 37% were car passengers and 63% were pedestrians. (Another 170 were excluded, being incidental accidents such as fingers caught in car doors).

Four methods were used to gather information about the accident, the injuries and the after-effects:—

- The children's hospital records;
- Ministry of Transport accident records;

Commercial and Domestic
200 Litre (44 Gal.)

DRUM HIRE AND RUBBISH REMOVAL SERVICE

Reliable Service
Free Quote
Phone: 596-570
Christchurch

HOME TUNE

Have your car tuned by the experts at your convenience. at your home, work or anywhere. Electronic tune and Engine report. All work and parts guaranteed

Phone: 496-904

All tunes $20.00 — Parts extra

Operators
Tony Davis and Julian Clothier

Holiday Lodge

862 COLOMBO STREET, CHRISTCHURCH
PHONE 66-584 (2 lines)

Cheapest serviced Motels in the city centre

15 Spacious serviced units comprising two bedrooms, sun room, lounge, kitchen bath/shower, and toilet. Own TV, wireless, and telephone in all units. Guest's laundry. Off street parking with car washing facilities

Your Hosts: Judith, Marion and Jack
The cheapest serviced motels in the centre of the city.
LOCATION: Half mile from city centre, on main street. Bus stop at gate. Shops handy.

Two minutes to . . .
- Town Hall.

Five minutes to . . .
- Botanical Gardens
- Museum
- Art Gallery
- Public Swimming Pool
- Boating on Avon

On Bus Route to . . .
- Addington Trotting Ground
- Addington Showgrounds
- Canterbury Court

CARPETS AND RUGS REDYED

IN THE HOME, ON THE FLOOR.

Eliminates spots, stains and pet marks. Intense and brilliant colours. Written guarantee on light and wet fastness.

Free no obligation quote,
Phone 67-753, A.H. BEL 8021.

MANCHESTER DYE CO.

(Christchurch) LTD.

DYERS AND CARPET CLEANERS
CHRISTCHURCH AND ASHBURTON.

- Interviews with child's parents;
- Checks with organisations giving services to handicapped children.

Interviews were only carried out for those 284 cases whose parents' addresses could be easily located, and of these, 17 parents declined an interview. The interviewers tried to help the parents to establish contacts with medical services, the Accident Compensation Commission, social workers, etc., if necessary.

Because of lack of address 46% could not be interviewed. It is difficult to draw firm conclusions from some of the data, even though the interviewed and non-interviewed groups were very similar in respect to age, sex, ethnic group, and severity of injury. However, the results show some clear-cut tendencies which cannot be caused by selection bias.

Two Different Diseases

Vehicle occupant and pedestrians accident have very different occurrence rates, causation patterns and prevention methods. Occupants' injuries occur at almost the same rate in each one-year age group, whereas pedestrians' injuries are uncommon among very small babies and increase with age. The highest death rates for child passengers in New Zealand are under 2 years of age, and the highest death rates for pedestrians occur at age 4-5. The Auckland hospital case data showed a peak for passengers at age 2-3 and for pedestrians at age 4-5.

Vehicle occupant death rates in the whole population are higher than the rates in the preschool age group, whereas the death rates among child pedestrians have been higher than the rates in the whole population.

During recent years there has been a decrease in traffic accident death rates. Boys have slightly higher injury rates, particularly in pedestrian accidents. Maori and Pacific Island child pedestrians are at a higher risk than Europeans whereas for passengers there was no difference between the rates for Pacific Island and European children.

The causation of occupant accidents is different from that of pedestrian accidents. The risk of having a passenger accident is dependent on the extent to which children travel in cars, and the frequency of traffic accidents in general. There is, however, no detailed data on children's travelling so this factor could not be analysed.

But a lot can be done to reduce passenger injuries, accepting that accidents will occur.

Pedestrians injuries on the other hand have to be prevented by preventing the accident itself. Very little can be done to reduce the extent of injuries when an accident happens.

Preschoolers' pedestrians accidents are very often caused

FITZSIMMONS MOTORS

For all your motoring needs, phone us now for your lube — tune-up — WOF — tyre repairs

Full repair service — motor and transmission o/hauls

You can now find us at:

351 ST ASAPH STREET, CHRISTCHURCH

Phone 50-769 now, for an appointment

We also carry a full stock of Valvoline and Bardahl Products

CHEAP OIL? NO WAY!

BETTER OIL? YES!
LONG LIFE? YES!

SUPER GRADES? YES!
YES! WE CAN AND DO —
DO IT BETTER AND CHEAPER!

ASK FOR GLYDOL
More than 20 years of service to Christchurch
GLYDOL IS GOOD FOR NZ

GLYDOL MOTOR OIL CO.

(Division of Industrial Engineers Ltd)
STAUNTON STREET, WOOLSTON, CHRISTCHURCH
PHONE: 841-763

McLennan Driving School

76 Roydvale Avenue, Christchurch

Learn to drive the safe way by lady or gent instructors in our modern dual controlled cars

PHONE 588-119

We call for and return clients to their homes

PLEASE SUPPORT THE ADVERTISERS

when small children cross roads. If their need to do so is reduced many accidents will be prevented.

Passengers Need Protection

The study showed that about two thirds of the accidents, in which a child was injured, were collisions or roll-overs. About half of these accidents were caused by factors which could not have been avoided by the driver of the car with a child passenger. Thus, even if you are a very careful driver, you have to ensure that your children are protected inside the car. Safety seats are an effective way.

A number of studies have shown the efficiency of seat belts in preventing injuries in adults. For preschool children special safety seats are the best method of injury reduction. In the study only a very small number of the hospitalised children had used any form of restraint. Based on an earlier survey of restraint use in New Zealand, this study deduced that the injury risk is about five times greater for children without restraints, than for children using some kind of restraint.

Experimental studies in Sweden have shown that the best restraints for preschoolers are specially designed backward-facing or forward-facing child safety seats, which are firmly attached to the body of the car.

None of the hospitalised children used such seats.

Lack of restraints can also increase the risk of an accident. In some of the cases in this study the driver was distracted by children playing unrestrained in the car.

Most of the accidents, that were not collisions, involved a child falling out of the car because a door accidentally opened (Fig. 1). Many of these vehicles were old-fashioned with door hinges at the back, and unsafe door handles. Drivers of such cars should be

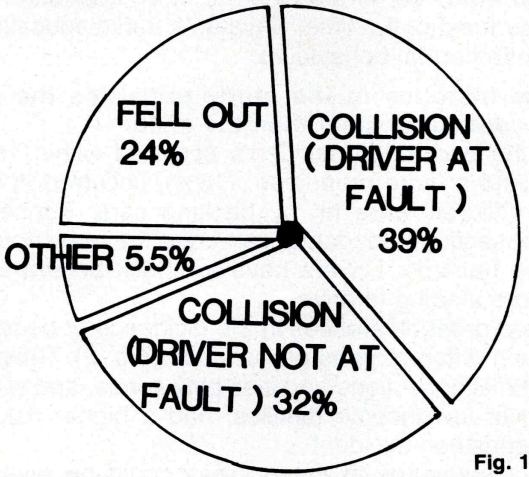


Fig. 1

aware of this risk. All the "falling out" accidents could have been prevented if the children had been restrained by safety seats or seat belts. These are needed even if you are a careful driver.

In the baby group (age less than 9 months), two thirds of the hospitalised children were travelling in carrycots. This is the same proportion as that of babies in general travelling in carrycots when in cars, and it indicates that in order to give any protection the carrycot has to be strapped to the car, and the baby has to be restrained inside the cot. Special safety cots or safety seats for babies give the best protection.

None of the injured children used such devices.

In most passenger cars, the head or the face was injured. This is to be expected as preschool children have heavy heads relative to the rest of their body size and they have poor abilities in bracing themselves against the impact.

Child Pedestrians — "Living Warning Signs"

Most of the injured child pedestrians were crossing a road when they were hit, either ahead of, or behind someone they knew, or they saw something on the other side of the road that interested them and they dashed across.

In order to prevent this type of accident, drivers and parents have to anticipate the situations in which a child suddenly runs out. A driver who sees a preschool child, without supervision on the side of the road, should slow down and be prepared to stop immediately.

Preschool children are not mature enough to cope with the traffic hazards on their own. Their hearing and eye-sight are not fully developed. It is quite normal for them to believe that approaching cars can stop **immediately.** At the pedestrian crossings, they may step out when the driver is too close to stop. It is also normal for children to play most of the time. Children's traffic education cannot change all these normal behaviours.

The case histories in the study underline the need for adults to be educated, rather than the child.

Most of the pedestrian accidents occurred within 1km of the child's home and a large proportion, (18%), occurred in the driveways where children were hit by backing cars. Fences around driveways and section boundaries can keep the preschool children away from the hazards. Drivers have to check behind and under their cars before starting to drive.

There were great differences in the incidence of pedestrian accidents between different parts of Auckland (Fig. 2). Children living in areas with smaller sections and less play space, and with a greater proportion of low income families, had a higher risk of being injured in a pedestrian accident.

Preventive measures in these areas could be given priority.

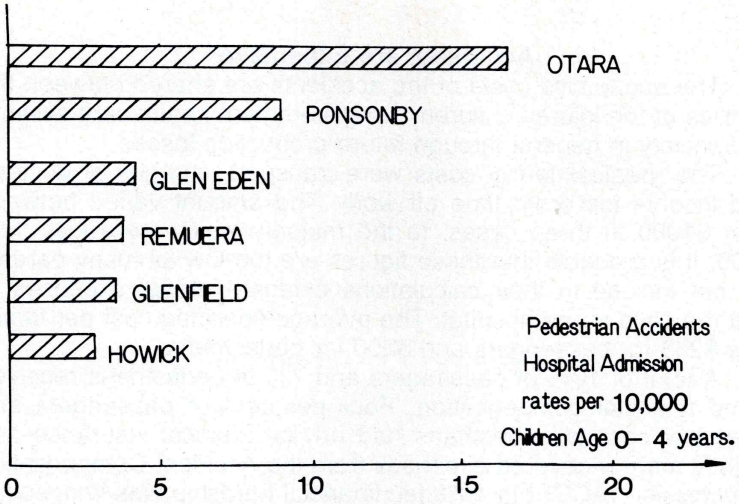


Fig. 2

One important way of preventing the 'crossing road' accidents would be to create 'car-free' zones within residential areas at the town planning stage. Road layouts incorporating bridges and underpasses create environments in which pedestrians seldom conflict with car traffic. Overseas experience indicates that such town planning measures can decrease the incidence of pedestrian accidents by 80%.

Pedestrians in the study often had head or face injuries. Limb fractures were more common among the pedestrians and their total injuries tended to be more severe than the passenger injuries.

Long Lasting Effects

In about half of the hospitalised cases it was commented there was a need for further support such as medical care, checkups at out-patient clinics and by family doctors, child minding, cookery and housework, emotional support and transport.

The most common physical after effects were due to various symptoms of brain and spinal damage and pains in injured legs. Long lasting pains and aches were common among pedestrians.

After checking with the institutions for the handicapped to evaluate the degree of brain damage, eight cases of severe lasting handicaps were found. Including those handicapped cases that could not be traced, it was estimated that 2-6% of preschool children hospitalised after traffic accidents suffered severe lasting handicaps. A larger group of children experienced behavioural effects which included affected sleep, appetite, school work and a lack of independence and confidence. Some of these effects may have been caused by the hospitalisation rather than by the accident itself.

Accidents are Expensive

The economics costs of the accidents are shared between the families of the injured children, the government health care system, and society in general through future production losses.

The greatest family costs were transport, charges of doctors, and income lost from time off work. The amount varied between over $1000 in three cases, to the majority which were less than $100. It is probable that these figures are too low as many parents did not include in their calculations extensive travel expenses to visit the child in the hospital. The average specified cost per family was $233 for passengers and $290 for pedestrians.

A total of 10% of passengers and 7% of pedestrians received some financial compensation. Four per cent of passengers and three per cent of pedestrians had private medical insurance and slightly more recovered expenses from the Accident Compensation Commission (ACC) but 10% felt financial hardship was imposed in one way or another by the accident.

The cost of the initial hospitalisation and after-care was calculated to be on average, about $700 for passengers and $1400 for pedestrians. The difference is mainly due to the pedestrians staying longer in hospital. These costs are covered by the health care system and the total amount per year in New Zealand would be about $500,000.

Cases with severe lasting handicaps need medical care, rehabilitation care and other assistance, maybe over their whole lifetime. Each such case could cost $100,000 or more. These costs are covered by the health care system and the social welfare system and in total may exceed$1,000,000 per year in New Zealand. The social costs for future production losses are of the same size.

Effective prevention methods against passenger and pedestrian injuries are already known. Such programmes will save a lot of money for the government health care system. For some prevention methods, such as child restraints, the money spent on increasing their use will soon be recovered in decreased hospital care costs.

Acknowledgements

The authors are grateful to the parents who spared their time to relate their experiences.

The study was supported by grants from the National Road Traffic Research Council, the Medical Research Council of New Zealand and the Department of Labour.

---

* Kjellstrom T. et al., The Traffic "Disease" in Children, report No. 1980:1, Department of Commununity Health, University of Auckland.

THE '2 SECOND' RULE

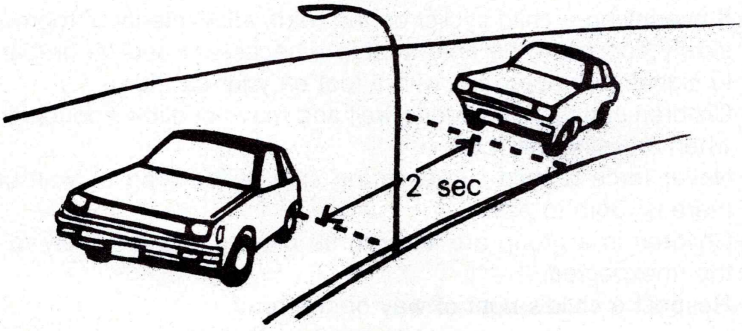
A method of determining a safe interval between your vehicle and the one ahead is based on the principle that there is a direct relationship between time and distance . . . For instance — at 20 km/h a vehicle travels about 6 metres per second; at 50 km/h a vehicle travels at 15 metres per second; at 80 km/h a vehicle travels at 24 metres per second.

Thus a safe following distance can then be determined by the simple process of counting off seconds. Research has established that by allowing a minimum of two second intervals, regardless of speed between vehicles, a safe margin can be maintained. This distance is not only more accurately determined than estimating car lengths but also affords the driver greater safety.

Practical Application

As you are watching the road while driving, it is a simple matter to select a fixed object — road signs, posts, shadow, etc. up ahead and use this object as a check point. When the vehicle you are following passes this reference point, count off (1,000 and 1; 1,000 and 2; or the word croc-o-dile) until your vehicle reaches the same point. This method will then give you a good estimate of the distance between you and the other car.

If you pass the point before 2 seconds, you are following too close. You then must reduce your speed and try again at another location. Once you establish the proper distance, you usually can maintain it for some time. It is wise, however, to recheck your position periodically to prevent closing the distance betwen your vehicle and the one ahead.



ONE GOLDEN RULE

– N.Z. ROAD SAFETY

There is one golden rule for motorists when children are about: Expect the unexpected.

If you remember this, and allow an extra margin of safety so that you can handle the unpredictable actions of children you could save a life.

Although being prepared for the unexpected is the main requirement for the protection of children on the roads, there are a number of more detailed rules under this main heading. They include:

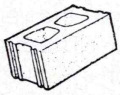
- Never expect children to act in traffic as adults would.
- Always make sure you can stop quickly if necessary when children are about.
- Pay special attention to children at the roadside — they may dash out unexpectedly.
- Children are likely to dash out whether alone, with other children and even with adults.
- If there are children on both sides of the road, it is likely some will dash across.
- If one child dashes onto the road, others are likely to follow.
- Never believe that children have a grasp of an overall traffic situation — they are usually concentrating on just one aspect.
- When something is happening at the roadside, children are likely to dash across to inspect it.
- Take extra care near playgrounds and shops as well as near schools.
- Watch for children getting out of cars on the opposite side of the road to a school, playground or shop.
- Remember that children might consider a pedestrian crossing is "magically" safe and dash on to it.
- If overtaking a child cyclist on the road, allow plenty of room, go slowly enough to be able to stop if necessary and be prepared to signal your approach with a toot on your car horn.
- Children can't judge speeds well and may not allow enough time when crossing the road.
- Never force a child cyclist to the side of the road — wait until there is room to pass.
- Children in a group are likely to be playing and are likely to do the unexpected.
- Respect a child's right of way on the road.

- Never count on a child crossing at a constant speed — he might break into a run.
- Check for children behind and under your car before leaving a parking space.
- Never drive between children crossing the street.
- Never think a child has eye contact with you even if he is looking directly at you.
- Never overtake at a crossing.
- If a child is waiting to cross the road, stop and let him. This may prevent him dashing in front of another car, or under-estimating the speed of another car and walking in front of it.

R.P.C. CONCRETE

Manufacturers of 'Feary' Masonry and Amuri Split Stone and Stone Henge Interlocking Paving Stones

RANGIORA PRE-CAST CONCRETE LTD



TELEPHONES: RANGIORA 7860
CHRISTCHURCH DIRECT KI6000

PETERS FOOD BAR

31 VICTORIA STREET, CHRISTCHURCH

Open 7 days from 10 a.m. till early a.m. for all takeaway snacks. Hamburgers, toasted sandwiches (all fillings), fish and chips, hot-dogs, sausages and chickens.

Open 8 a.m.-2.30 p.m. Sandwich House:
Custom made sandwiches made in front of you! Select your own fillings. Also hot pies, savouries, rolls, milk shakes, etc.
Electronic Games Room: Space Invaders, etc.

Take Away Food Specialists

PHONE 66-413

ERSKINE MOTORING SERVICES LTD

GARAGE & SERVICE STATION
TAKEAWAY FOOD BAR
BOOKS AND PAPERS
OPEN 7 DAYS A WEEK

PHONE RUN. 708

43 SEVEN MILE ROAD, RUNANGA

WESTPORT HIGHWAY 6

Proprietors: D. C. & B. Jamieson

The Law and the Cyclist

For the purpose of traffic legislation the bicycle is classified as a vehicle and consequently the cyclist is required to abide by the law in the same way as a motorist keeping his vehicle properly maintained and showing consideration for all other road users.

Bicycles come in all shapes and sizes, some of the equipment is optional and for the owner's convenience but there are some basic requirements that all cycles must have.

The items required by law are:

- A rear brake, this must be efficient enough to grip the wheel firmly.
- A red reflector facing to the rear, or red reflector tape having a minimum area of 50 square centimetres.
- A white patch having a minimum area of 75 square centimetres.

If the cyclist intends riding at night or at times when visibility is poor, the bicycle must have:

- A head lamp with a white light visible 100 metres to the front.
- A red reflector on the rear and a red light visible for 100 metres from the rear.

There are many other items which may be added to the bicycle for the purposes of safety, appearance or convenience. These include a signal showing which way the cyclist is going to turn. A rear view mirror and a warning bell are also useful safety accessories.

It's fun to ride fast, but don't do it on the road.

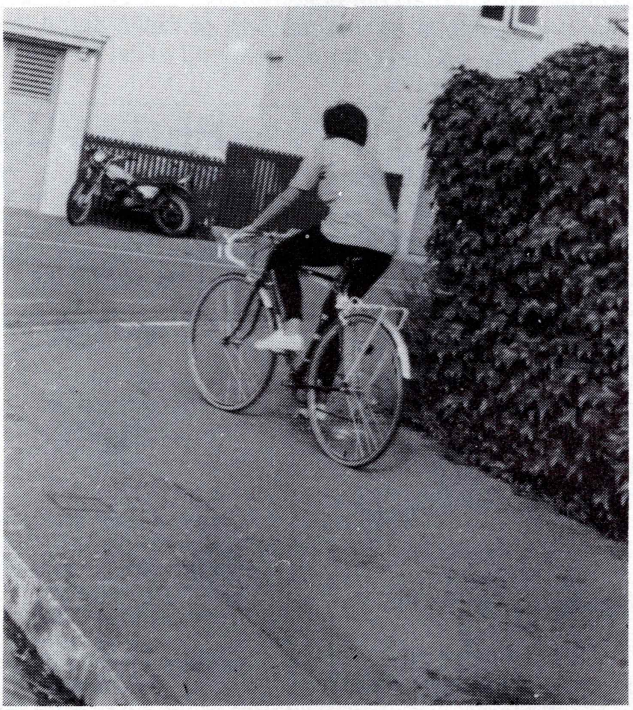
Chain guards are fitted on most bikes, these are useful as they prevent oil being splattered onto the rider's clothes and can prevent injury in the event of an accident.

The law states that bicycle lights must be used during the hours of darkness, these are half an hour after sunset and half an hour before sunrise. Riding with no light is very dangerous as the beam not only guides the cyclist but also is an indication to motorists of the cyclist's presence.

Footpath

Riding on the footpath is dangerous. The cyclist creates a hazard to pedestrians as well as himself. A driver pulling out of a driveway will not make allowance for a cyclist being there.

The only circumstance under which cyclists can double is when a special seat is fitted to the carrier of their bicycle. These must have foot rests and protective wheel covers to prevent the child's feet getting caught in the spokes. Doubling without a seat impairs the rider's vision and balance and is a risk to the life of the person the cyclist is carrying.



Don't ride on the footpath.

Another very dangerous practice is being towed by holding on to another vehicle. If the vehicle stops or turns suddenly you are likely to get caught under the wheels resulting in a very unpleasant accident.

The law states that a cyclist may not ride more than two abreast. This is very important and must be enforced by all cyclists. A car passing cyclists riding more than two abreast has to move over the centre line of the road subsequently endangering oncoming vehicles.

Pressure

In many New Zealand cities cycle tracks have been provided to alleviate the pressure placed on the main roads. Where these are provided they should be used. Riding on footpaths, lawns and gardens is not permitted.

In some places local by-laws are issued to control local traffic and often these include bicycles. Usually a by-law will state places in which a bicycle may park.

All cyclists must remember that careless high speed riding without regard for other road users is not acceptable and you can be prosecuted for such an offence.

Today the bicycle is an integral part of traffic and it is imperative that the bicycle and its rider abide by all rules.

BUY DIRECT

★ Tents
★ Awnings
★ Tarpaulins
★ Covers
★ Hikers Packs
★ Sports Bags
★ Boat Covers
★ Canopies

FULL MAIL ORDER SERVICE

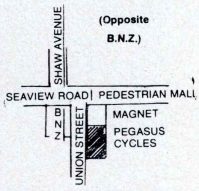
— Country Clients —
Phone Collect
REPAIRS & ALTERATIONS

HI-EX

1066 Ferry Rd (Near Ferrymead Bridge)
PHONE 849-666 A/H's 841-044

PEGASUS CYCLES LTD

PHONE 889-140
3 UNION STREET, NEW BRIGHTON
(Opposite B.N.Z.)



Ask for Len Rhodes for expert advice on racing or touring cycles and parts. He has 30 years of racing and sales behind him!

★ Big new shop! ★ Big new stock! ★ Open 12 hours on Saturday ★ Free after sales service by master mechanics

See us first for all Racing and Touring cycles and accessories

BIKE VERSUS CAR

In these days of high fuel costs, high car prices and heart attacks, the bicycle is a particularly attractive proposition.

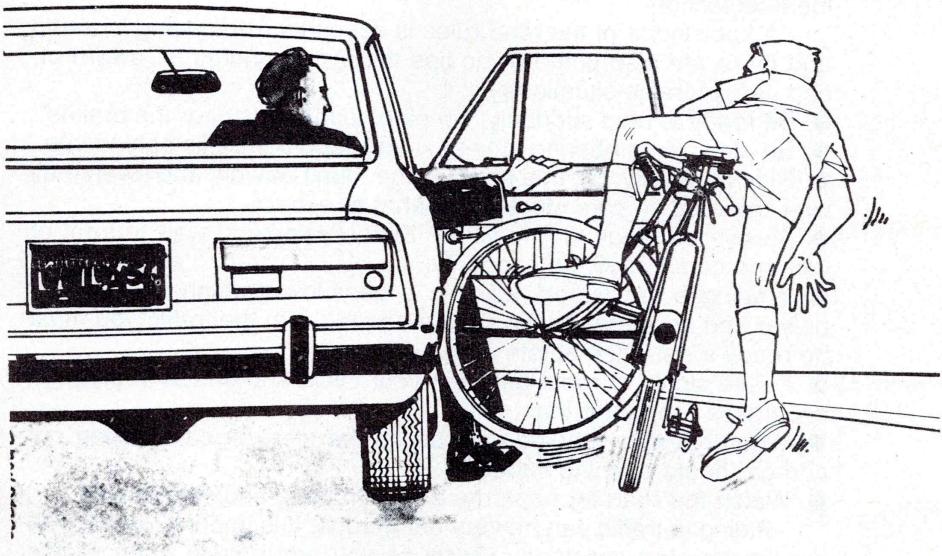
It produces no poisonous fumes, is quiet and does not consume valuable non-renewable fuel resources. It is cheap to buy and maintain, easy to park and the rider benefits from the exercise required to propel it.

With these arguments in favour of bicycles, one would wonder why we don't all sell our cars and invest in bicycles.

Luxurious

Perhaps the disadvantages have in the past anyway, outstripped the advantages. You can't sink into a padded, luxurious seat on a bicycle, there is a limit to the luggage you can carry and you are at the mercy of the weather and to some exent the terrain.

More and more people are now putting their health (and the state of their bank balance) above these disadvantages and the bicycle is becoming a valuable means of transport, particularly as a way of commuting to work.



An illustration of what can result if neither motorist nor cyclist is on the alert.

Because of the increasing number of cyclists on our city streets the motorist must learn to be aware of the hazard faced by cyclists in traffic. The cyclist, for his part, has to learn how to conduct himself in a heavy traffic situation.

Courtesy

It should be remembered by the motorist that the cyclist has as much right to be on the road as any other form of transport and therefore deserves the same courtesy shown to other road users. The motorist should give the cyclist enough room to move comfortably.

Bicycle riders must realise that it is highly likely that a driver may not see them and therefore must make themselves as conspicuous as possible. There are brightly coloured vests available and these are excellent in traffic. Cyclists should also aid the driver by giving a clear indication of their intentions when stopping or turning.

A lot of traffic problems encountered by cyclists occur at intersections. The main problem in these areas is the bicycles comparitively slower speed when moving from a stationary position.

Traffic lanes catering for turning as well as straight through traffic are a risk for cyclists wanting to proceed straight through. When approaching such a situation the cyclist should move to the centre of the lane in order to indicate his intentions to the driver behind. Proceed in the middle of the lane, moving to the side when clear of the intersection.

A knowledge of the road rules is essential when riding in traffic and there are also some basic tips the cyclist should be aware of, and use, in traffic situations.

- Be ready to stop suddenly, keeping your hands near the brakes.
- Be alert, remembering to keep a watch on the traffic behind you.
- Ride positively. Go in a straight line, don't dawdle and swerve all over the road — cars must know what to expect.
- Always be ready for the worst. Expect people to walk in front of you and cars to pull out suddenly.
- If riding a ten speed, keep in a gear low enough to give you power and acceleration. To stay integrated with the traffic you must be ready for sudden bursts of speed.
- Leave plenty of room between your cycle and the car in front — his brakes are better than yours.
- When riding by parked cars be on the alert for cars pulling out and car doors opening suddenly.
- Watch the road for hazards, e.g. pot holes, boulders, oil, etc.

Riding in traffic can be very dangerous. It is imperative that you are on the alert constantly. Because you are in such a vulnerable position your knowledge of the road rules must be thorough.

TOURIST ATTRACTION

GREYMOUTH'S FIRST

JADE CENTRE

Manufacturers of N.Z. Greenstone Jewellery and Carvings, Souvenirs

Cut and Polished:

- BLOCKS
- PAPERWEIGHTS
- PENDANTS
- CARVINGS
- EARRINGS
- DRESS RINGS
- CUT SLABS
- POLISHED SHAPES FOR HOBBYISTS
- CUT RAW STONE, etc.

Enquiries for special orders promptly attended to.

SHOP AT 125 MACKAY STREET

(The Main Street) Near the Railway Station

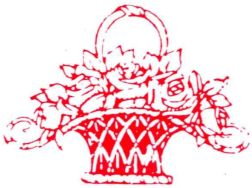
TELEPHONE 5062, After Hours 5332 GREYMOUTH

ITEMS THAT CAN BE VIEWED ARE NUMEROUS

5% Discount on production of this advertisement.

ERAS & CO.

521 COLOMBO STREET CHRISTCHURCH
(Next to Cockram Datsun)



Full Floral Service

Flowers Telegraphed Throughout the World

Fresh Flowers delivered Twice Daily

Manageress: Miss J. M. Farrell

PHONE 65-233

24 hr Telephone Service

TAS

Tough, lightweight power when and where you need it.

See the wide TAS range of power machines at your nearest DALGETY branch or local agent now. There's everything you could need — from hedge trimmers to grass and bush cutters, from generators to outboard motors. The TAS range of machinery is fast building itself an enviable reputation for toughness and reliability — and at realistic prices, too. Ask the men who're using TAS machines — they'll tell you just how good they are.

1. TAS HEDGE TRIMMER
The best hedge trimmer in the world — makes hedge cutting easier, faster than you ever thought possible. The TAS is incredibly strong yet light in weight — just 12 lbs with a 32" cutting blade. See it — try it for yourself — makes old methods of hedge trimming obsolete. ONLY **$189**

2. TAS BUSH AND GRASS CUTTERS
Slice powerfully through the toughest scrub and bush. Easy to operate — lightweight design with anti-shock mechanism. Full engine power no matter which way they're tilted.

QUM-2 MODEL ONLY **$246**

TGC TNC 23N ONLY **$195**

3. TAS CHAIN SAWS
Lightweight, easy starting, fast cutting. Will handle a wide range of jobs — on the farm, around the home.

ECS-5 14" MODEL ONLY **$191**

ECS-5 16" MODEL ONLY **$239**

4. TAS GENERATORS
Four versatile, lightweight generators you can take anywhere. Ideal for builders, contractors, caravan owners, campers, launch owners.

QEG 300 ONLY **$279**

DEC 600 ONLY **$349**

REG 800 ONLY **$329**

LEG 1200 ONLY **$429**

5. TAS PORTABLE DAGGING PLANT
Lets you move from paddock to paddock. No need to muster the whole flock for dagging — do a bunch at a time. Weighs just over 20 lbs — clip it on a gate or rail and you're away. Instant speed control from hand throttle. Safe, too — centrifugal clutch drive automatically disengages motor if handpiece jams or meets obstruction. ONLY **$229**

6. TAS ENGINE DRILL
Weighs only 10¼ lbs — completely portable. Operates in any position. Bores through steel and the hardest timber. Attach a masonry bit and it drills through concrete. Efficient recoil starter. ONLY **$99**

7. TAS KNAPSACK SPRAYER
Handles any task — wet spray or dry dust, **needs no extras.** Light and comfortable to handle — with a specially designed vibration damper. Adjustable nozzle — long distance or wide diffusion. Superbly versatile — on the farm, in orchards, market gardens, nurseries. ONLY **$288**

8. TAS OUTBOARD
1.2h.p Unlimited runabout transport on next-to-nothing fuel consumption. Ideal emergency motor, too. Light as a feather but packed with power, you have to try it to appreciate its performance. Look at the price —

T.O.B. 12 MODEL ONLY **$198**

T.O.B. 25 MODEL ONLY **$319**

9. TAS POST HOLE BORER
(Clutch and direct drive models)
Top performance — compare it! Lightweight, compact. Weighs only 30 lbs complete with handle and full fuel tank (only 48 lbs fitted with an 8" auger). Reliable Tas 2-stroke engine starts readily, hot or cold. Augers available — 2" (for tree planting), 3", 4", 6", 8" diameters.

CLUTCH MODEL ONLY **$289**

DIRECT DRIVE MODEL ONLY **$275**

(augers extra).

DALGETY

BRANCHES THROUGHOUT NEW ZEALAND